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Massachusetts 1988

FEED, SEED AND FERTILIZER REPORT

Massachusetts Department of Food and Agriculture

Bureau of Farm Products

GOVERNMENT DOCUMENTS
COLLECTION

MAY 15 1989

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James S. Hoyte

Secretary of Environmental Affairs

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Commissioner of Food and Agriculture

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Chief, Bureau of Farm Products

PREFACE

This publication consists of reports of the work assigned to the Massachusetts Agricultural Experiment Station by authority of the Feed Act (General Laws, Chapter 128, Sections 51 to 63 inclusive), the Seed Act (General Laws, Chapter 128, Sections 84 to 100 inclusive), and the Fertilizer and Liming Materials Act (General Laws, Chapter 128, Section 64 to 83 inclusive).

Included are Feed Report (Number 93 for the Fiscal Year 1988, Seed Laboratory Report (Number 61 for the year 1988 and the Fertilizer and Liming Material Report (Number 114 for the year 1988.

For information concerning this report on the analyses of feeds seeds, fertilizers, liming material, and for information concerning certification of milk fat testing equipment and certification of operators of milk fat testing equipment, please write to:

Official Chemist
Feed, Seed, Fertilizer Laboratory
University of Massachusetts
West Experiment Station
Amherst, MA 01003

Regulatory Information

Feed, Seed, Fertilizer Control Official: Registration of Feed, Fertilizer. and Liming Products write to:

James M. Cassidy
Control Officer
Massachusetts Department of Food and Agriculture
100 Cambridge Street
Boston, MA 02202

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For information concerning companies registered for the year please contact the Control Officer at the above address.

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DEPARTMENT OF FOOD AND AGRICULTURE REGULATORY STAFF, BUREAU OF FARM PROUDCTS

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INSPECTION OF COMMERCIAL FEEDSTUFFS

Report Number 93 for the Fiscal Year

Ending 1988

By the Feed Laboratory Staff

of the Feed, Seed, and Fertilizer Laboratory

West Experiment Station, Amherst, MA 01003

UNIVERSITY OF MASSACHUSETTS
COLLEGE OF FOOD & NATURAL RESOURCES
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Brands Substantially Complying with Guarantees

Manufacturer & Brand	Number Samples Analyzed
<u>AGWAY, INC.</u>	
Agway Scratch Grains 9.0-2.0-5.0	3
Agway Crimped Oats 10.0-4.0-12.5	1
Agway 10% Stock Mix 10.0-1.0-9.0	1
Agway Choice Horse Feed 12.0-2.0-20.0	11
Agway Choice Horse Feed Pellets 12.0-2.0-20.0	4
Agway Pro-lean 14% Hog Feed Medicated 14.0-3.0-5.0	13
Agway Wheat Bran 14.0-2.5-12.0	1
Agway Pro Lab Rat-Mouse-Hamster 14.0-6.0-4.5	1
Agway Performance Horse Pellets 14.0-3.0-10.0	4
Agway Early Market Lamb Pellets 14.0-2.0-18.0	4
Agway Pro-lean Gestating Swine Feed Pellets 14.0-2.5-10.0	2
Agway Performance Extruded Horse Feed 14.0-3.0-10.0	1
Agway Country Chicken Grower 14.5-3.5-4.0	5
Agway Country Chicken Grower Bits 14.5-3.5-4.0	2
Agway Big Red Special Rabbit Pellets 15.0-2.5-15.0	10
Agway Big Red Rabbit Food 15.0-2.0-18.0	1
Agway Country Game & Turkey Feed Medicated 16.0-3.0-8.0	2
Agway Country Egg Layer Mash 16.0-3.0-4.0	1
Agway Milk:Right 16 (N.V.) 16.0-2.5-12.0	6
Agway Country Egg Layer 16.0-3.0-4.0	10
Agway Country Egg Layer Shorties 16.0-3.0-4.0	7
Agway Country Egg Layer Pellets 16.0-3.0-4.0	9
Agway Country Egg Layer Bits 16.0-3.0-4.0	2
Agway Pro-lean 16% Sow & Pig Feed (T 40) Medicated 16.0-3.0-5.0	9
Agway Country Poultry Finisher Unmedicated 16.0-3.0-8.0	4
Agway Ratio-Right 550-16 Pellets 16.0-3.0-7.0	11
Agway Ratio-Right 501-16 Pellets 16.0-3.0-8.5	1
Agway Pro:Right 5500-16 Crunchy 16.0-3.0-7.0	1
Agway Ratio:Right 445-18 (18 Hi-Cal) Pellets 18.0-3.0-8.5	1
Agway Country Game & Turkey Breeder Pellets 18.0-3.0-4.5	2
Agway Broiler Finisher (Mn #90) Medicated 18.0-3.0-4.0	1
Agway Mare 'N Foal Horse Pellets 18.0-2.5-7.5	5
Agway Pro-Lean Pig Starter Pellets (MX-PT) Medicated 18.0-3.5-4.5 ...	4
Agway Pro-Right RC 5000-18 18.0-3.0-6.5	1
Agway Gro-Right Calf-Crunchy 18.0-3.0-7.0	1
Agway Pro-Lab Guinea Pig Animal Diet 18.0-4.0-15.0	1
Agway Pro-Lean Squealer Pellets (MX) Medicated 18.0-4.0-3.0	1
Agway Country Game & Turkey Grower 18.0-3.0-4.5	1
Agway Ratio:Right 400-20 Pellets 20.0-3.0-8.5	2
Agway Ratio:Right 401-20 20.0-3.0-8.5	1
Agway Ratio:Right 450-20 20.0-3.0-7.0	1
Agway Ratio:Right RC 4500-20 Pellets 20.0-3.0-6.5	4
Agway Country Egg Producer 21.0-3.0-4.0	1
Agway Country Turkey Grower (IP) Medicated 21.0-3.0-4.5	2
Agway Country Game & Turkey Grower Pellets Medicated 21.0-3.0-4.5 ...	8
Agway Pro Lab Rat-Mouse-Hamster 3000 22.0-5.0-5.0	1
Agway Pro Right RC 4000-22 (For Cows) 22.0-3.0-6.5	1
Agway Pro Lab Primate 26 Animal Diet 22.0-6.0-3.5	1

Brands Substantially Complying with Guarantees (Cont'd)

Manufacturer & Brand	Number Samples Analyzed
<u>AGWAY, INC. (Cont'd)</u>	
Agway Country Game & Turkey Starter Medicated 28.0-3.0-4.0	5
Agway 37% Hog Concentrate 37.0-2.0-6.0	1
Agway Pro-Right 2000-40 (Buxmont + 40) Pellets 40.0-0.75-5.0	1
Agway Pro-Lean 42% Hog Concentrate 42.0-2.0-5.0	1
Agway 48% Solvent Extracted Soybean Meal 48.0-0.5-3.5	2
<u>APPLE'S AVIARY & SUPPLY CO., INC.</u>	
Apples Finch Diet 14.0-6.0-7.0	1
Apples Parrot Diet 14.0-16.5-14.5	1
<u>BAY-MOR PET FEEDS</u>	
Bay-Mor Economy Breeder Pigeon Feed 11.0-2.0-5.0	1
Bay-Mor Quality Pigeon Feed Bullies 14.0-2.0-5.0	1
Bay-Mor Quality Pigeon Feed Conditioning N/C 16.0-2.0-5.0	1
<u>BEACON FEED MILLING CO., INC.</u>	
Beacon Stretch Dairy Pellets 12.0-1.5-20.0	1
Beacon Tally-Ho Horse Feed 12.0-2.5-10.0	1
Beacon Golden C & F 14.0-2.5-8.0	1
Beacon Golden Test 16 Dairy Feed 16.0-3.0-9.0	1
Beacon Golden Test 18 18.0-3.25-8.0	1
<u>BERNARDSTON GRAIN MILL, INC.</u>	
Excel Fitting Ration 14.0-3.5-10.0	1
Excel Pig Grower 15.0-3.0-6.0	1
Excel Chicken Grower 15.0-3.0-6.0	1
<u>CALDWELL SUPPLY CO., INC.</u>	
Caldwell Selected Sunflower Seed 16.0-22.0-35.0	1
<u>CARGILL NUTRENA FEED DIV.</u>	
Nutrena Horse Kwik Ration With Roughage Pellets 12.5-2.0-20.0	2
Nutrena Vitality 14 Horse Feed Pellets (D) 14.0-3.0-6.0	1
Nutrena Pig & Hog Feed 15.0-2.5-7.0	1
Nutrena Pullet Grower-15 (B) Feed 15.0-3.0-5.0	1
Nutrena Egg Producer Meal (V) 16.0-3.0-4.5	1
Nutrena Egg Producer Ration (D) 16.0-3.0-4.5	1
Nutrena Complete Rabbit Pellets 18.0-2.5-15.0	1
Nutrena Vitality Pellets Milk Plus 28.0-3.0-3.0	1
<u>CONAGRA, INC./FRUEN DIV.</u>	
Cherokee Toasted Steam Rolled Barley Flakes 11.0-1.5-7.0	2
<u>FARM BUREAU</u>	
Rascal 30% Protein Cat Food 30.0-8.0-4.5	1
<u>HILL'S PET PRODUCTS, INC.</u>	
Hill's Canine Maintenance Science Diet 22.0-13.0-4.3	1
Hill's Science Diet Canine Growth 26.0-17.0-4.0	2

Brands Substantially Complying with Guarantees (Cont'd)

Manufacturer & Brand	Number Samples Analyzed
<u>THE IAMS COMPANY</u>	
Iams Chunks High Nutrition Dog Food 26.0-15.0-5.0	2
Iams Puppy Food 28.0-17.0-4.0	1
Eukanuba High Nutrition Dog Food 30.0-20.0-4.0	4
Eukanuba For Puppies 32.0-21.0-4.0	1
<u>KAYTEE PRODUCTS, INC.</u>	
Kaytee Flying Pigeon Feed #5 15.5-2.5-4.5	2
Kaytee Hi-Protein Race & Show Pigeon Pellets 20.0-3.5-5.0	1
<u>LANG'S DEHY, INC.</u>	
Lang's Dehydrated Alfalfa Pellets 17.0-0-27.0	1
<u>MANNA-PRO CORPORATION</u>	
Manna Round-Up 12.0-2.0-25.0	1
Manna Family Farm Egg Maker 13.0-3.0-7.0	1
Manna Double Duty Rabbit Pellet 16.0-2.5-20.0	1
Calf-Manna Concentrated Ration All Farm Animals 25.0-3.0-6.0	4
Calf-Manna Concentrated Ration W/Vitamins 25.0-3.0-6.0	2
<u>MARTIN'S FEED MILL, INC./DOG FOOD DIV.</u>	
Bench & Field 20% Protein Dog Food 20.0-5.0-4.0	1
Bench & Field 26% Protein Dog Food 26.0-9.0-3.0	1
<u>MOYER & SON, INC.</u>	
Purgrain Pigeon Feed Economy 10.0-2.0-4.0	1
Purgrain Racing Pigeon Feed 17.0-1.5-5.0	1
<u>NORTHERN PRIDE FEED, INC.</u>	
Northern Pride Steam Crimped Race Horse Oats 11.0-3.0-12.0	1
<u>OLD MOTHER HUBBARD DOG FOOD CO., INC.</u>	
Old Mother Hubbard Large Dog Bones 24.0-7.0-3.0	1
Old Mother Hubbard Medium Kibbled Biscuits 24.0-7.0-3.0	2
Old Mother Hubbard Small Dog Bones 24.0-7.0-3.0	2
Old Mother Hubbard Dog Biscuits 24.0-7.0-3.0	4
Old Mother Hubbard Oven Baked Kibbled Biscuits 26.0-8.0-4.0	1
<u>PEREIRA'S GRAIN & SUPPLY, INC.</u>	
Five Star Special Breeding Mix 11.0-2.0-5.0	1
Five Star Tip-Top Pigeon Feed Mix 11.75-2.5-3.75	1
<u>PRO-PET, INC.</u>	
Big Red Rabbit Food 15.0-2.0-18.0	4
Big Red Pardner Dog Food 21.0-6.0-5.5	1
Big Red Nuggets Dog Food 21.0-8.0-5.5	4
Big Red Small Dog Bones 24.0-7.0-3.0	2
Big Red High Energy Dog Food 25.0-10.0-5.0	3
Lil Red Original Flavor Cat Dinner 31.0-10.0-3.0	2

Brands Substantially Complying with Guarantees (Cont'd)

Manufacturer & Brand	Number Samples Analyzed
<u>PURINA MILLS, INC.</u>	
Purina Grain Land Medium Cracked Corn 8.0-3.5-3.0	1
Purina Mills Scratch Grain 8.0-1.5-4.5	2
Purina Pure Pride #100 Horse Feed 10.0-2.5-12.0	1
Purina Dairy Fiber Pak 10.0-1.0-20.0	1
Purina Horse Chow #100 10.0-2.0-30.0	3
Purina Chow Pork Finisher 12.0-2.5-7.0	1
Purina Game Bird Maintenance Chow 12.5-2.5-10.0	1
Purina High Octane Lactation Chow 14.0-4.0-4.0	1
Purina Horse Chow #200 14.0-2.5-25.0	2
Purina Rabbit Chow Complete Blend 14.0-2.0-20.0	3
Purina Pure Pride #200 14.0-2.5-8.0	1
Purina Layena Etts Poultry Feed 16.0-2.5-7.0	2
Purina Layena 16 Poultry Feed 16.0-1.5-7.0	1
Purina Turkey Finisher 16.0-3.5-4.5	1
Purina Rabbit Chow Performance Blend 17.0-2.0-18.0	1
Purina Guinea Pig Chow #5025 18.0-4.0-16.0	1
Purina Nutri Blend Green 18.0-3.5-7.0	1
Purina Game Bird Flight Conditioner 19.0-2.0-12.0	1
Purina Game Bird Breeder Layena 20.0-2.5-7.0	1
Purina Meat Builder Poultry Feed 20.0-3.0-5.0	2
Purina Chinchilla Chow Checkers 20.0-3.0-18.0	1
Purina Rodent Laboratory Chow #5001 23.0-4.5-6.0	1
Purina Field 'N Farm Plus Dog Meal 24.0-8.0-6.0	1
Purina Pro Plan Adult Formula Dog Food 25.0-15.0-3.0	1
Purina Hi-Pro Dog Food 27.0-10.0-4.0	1
Purina Pro Plan Growth Formula Dog Food 28.0-18.0-3.0	1
Purina Game Bird Startena 30.0-2.5-6.5	1
Purina Cat Chow 30.0-8.0-4.5	1
Purina Pro Plan Performance Formula Dog Food 30.0-20.0-2.5	1
Purina Pro Plan Growth Formula Cat Food 31.0-20.0-3.0	1
Purina Pro Plan Adult Formula Cat Food 33.0-14.0-2.0	1
Purina Trout Chow 40.0-10.0-5.0	1
<u>THE QUAKER OATS COMPANY</u>	
Ken-L-Ration Small Kibbled Pro Dog Biskit 22.0-7.0-3.0	1
<u>RANCHEE PRODUCTS</u>	
Woodstock's Gourmet Buffet Wildbird Food 10.0-5.0-22.0	1
<u>SPECIALTY PET PRODUCTS</u>	
ANF 30 High Performance Dog Food 30.0-18.0-3.5	1
ANF Puppy Food 32.0-20.0-4.0	1
<u>SUNFLOWER, INC.</u>	
Feathered Friend Favorite WildBird Mix 10.5-4.0-8.0	1
Feathered Friend Flyers Choice 14.0-20.0-12.0	1
<u>TIZWHIZ DISTRIBUTORS, INC.</u>	
Tizwhiz Broodmare Ration 9.0-2.0-5.0	1

Brands Substantially Complying with Guarantees (Cont'd)

Manufacturer & Brand	Number Samples Analyzed
<u>TIZWHIZ DISTRIBUTORS, INC. (Cont'd)</u>	
Tizwhiz Highest Quality Horse Feed 16.0-2.5-6.0	2
<u>TRIUMPH PET FOOD INDUSTRIES, INC.</u>	
Triumph Super Dog Biscuits 23.0-5.0-3.0	1
<u>UNITED CO-OPERATIVE FARMERS, INC.</u>	
U.C.F. Whole Corn 8.8-3.8-2.7	2
U.C.F. Cracked Corn 8.8-3.8-2.7	3
U.C.F. Corn Meal 8.8-3.8-2.7	2
U.C.F. Scratch Feed 9.0-2.5-7.0	1
U.C.F. Hay Extender Pellets 10.0-1.5-16.0	5
U.C.F. Quality Bird Food 10.0-3.0-9.0	1
U.C.F. Whole Oats 11.0-4.0-12.0	2
U.C.F. Crimped Oats 11.0-4.0-12.0	3
U.C.F. Farm & Home Feeds Oats 11.0-4.0-12.0	1
U.C.F. Pride Complete Horse Feed Pellets 13.0-2.0-15.0	9
U.C.F. Hog Finisher Pellets 13.0-3.0-8.0	4
U.C.F. Farm & Home Feeds Wheat Bran 13.5-2.5-12.0	4
U.C.F. Complete Layer Pellets 15.0-3.0-5.0	10
U.C.F. Complete Layer Crumbles 15.0-3.0-5.0	2
U.C.F. Complete Layer Mash 15.0-3.0-5.0	6
U.C.F. Hog Grower Pellets 15.0-3.0-7.0	7
U.C.F. Hog Grower Mash 15.0-3.0-7.0	2
U.C.F. A.M. Grower Pellets 15.0-3.5-5.5	6
U.C.F. A.M. Grower Mash 15.0-3.5-5.5	2
U.C.F. A.M. Grower Crumbles 15.0-3.5-5.5	1
U.C.F. 16 Profitmaker Dairy Pellets 16.0-3.5-8.5	4
U.C.F. 16 Profitmaker Pellets 16.0-3.5-10.0	7
U.C.F. 16 Test HE-LS W/Double Vitamins 16.0-3.75-7.0	1
U.C.F. TizWhiz Horse Feed Pellets 16.0-2.5-6.0	1
U.C.F. Rabbit Pellets 17.0-3.0-17.0	12
U.C.F. Pig Starter Pellets 18.0-4.0-5.0	2
U.C.F. Turkey Finisher Pellets 18.0-3.0-5.5	5
U.C.F. Turkey Grower Pellets 20.0-3.0-5.5	6
U.C.F. 20 Profitmaker 20.0-3.5-8.5	4
U.C.F. Best Friend Dog Food 21.0-8.0-4.5	1
U.C.F. Farm & Home Instant Mix Milk Replacer 21.0-15.0-0.5	1
U.C.F. Complete Broiler Crumbles 21.0-5.5-3.5	2
U.C.F. Oven Baked Dog Bones 24.0-7.0-3.0	1
U.C.F. Guinea Pig Pellets 24.0-2.5-12.0	1
U.C.F. Turkey Starter B Mash Medicated 28.0-3.5-4.5	2
U.C.F. Pure Puppy Food 28.0-9.0-4.5	1
U.C.F. Soybean Meal 48.0-0.9-3.4	1
<u>VENTURA GRAIN CO., INC.</u>	
Every Day Formula 1100 Horse Pellet 11.0-3.0-8.0	1
Every Day Formula 1400 Horse Pellet 14.0-2.5-20.0	2
Every Day Hog Feed 14.0-3.5-5.0	1

Brands Substantially Complying with Guarantees (Cont'd)

Manufacturer & Brand	Number Samples Analyzed
<u>VENTURA GRAIN CO., INC. (Cont'd)</u>	
Every Day 16% Dairy Pellet 16.0-3.5-9.0	2
Every Day Complete Grower Bits 16.0-4.0-4.5	1
Every Day Complete Layer 16 Mash 16.0-3.0-4.5	1
Every Day Rabbit Pellets 17.0-3.0-18.0	2
Every Day Turkey Grower 20% Bits 20.0-3.5-4.5	1
Every Day 20% Hi-Energy Dairy Pellets 20.0-3.5-6.0	1
<u>WAYNE PET FOOD DIV: CONTINENTAL GRAIN CO.</u>	
Wayne Tail Wagger Dog Food 22.0-6.0-5.0	1
Wayne Bite Size Dog Food 25.0-12.0-3.0	1
Wayne Cat Food 30.0-9.0-4.5	1
<u>H. K. WEBSTER CO., INC.</u>	
Blue Seal Fine Cracked Corn 8.5-2.5-2.5	1
Blue Seal Coarse Cracked Corn 8.5-2.5-2.5	2
Blue Seal Scratch Feed 9.0-2.5-5.0	4
Blue Seal Buffine Pellets 9.0-2.0-6.0	1
Blue Seal Neutral Pellets 9.0-2.0-6.0	1
Blue Seal Race Horse Oats 10.0-3.5-12.0	4
Blue Seal Sing Along Wild Bird Mix 10.0-5.0-7.5	3
Blue Seal Sweet Crimped Oats 10.0-3.0-12.0	1
Blue Seal Strider Horse Feed Pellets 11.0-3.0-7.0	6
Blue Seal Song Maker Wild Bird Mix 11.0-8.0-10.0	3
Blue Seal Pacer Horse Feed 12.0-3.0-9.0	2
Blue Seal Pork Maker Mash 13.0-3.5-7.0	2
Blue Seal Trotter Complete Horse Ration 14.0-2.5-20.0	18
Blue Seal Charger 3 in 1 Horse Feed 14.0-2.5-12.5	1
Blue Seal Diamond V Yeast Culture 14.0-2.5-8.0	2
Blue Seal Coarse 14 Test Cow & Livestock Ration 14.0-3.5-8.0	1
Blue Seal Lamb Finisher Pellets 15.0-3.5-7.0	1
Blue Seal Grower-Cal Mash 15.0-3.0-4.0	1
Blue Seal Grower-Cal Pellets 15.0-3.0-4.0	3
Blue Seal Pig & Sow Pellets 15.0-3.5-7.0	10
Blue Seal Layer Mash 15.0-3.0-4.0	7
Blue Seal Layer Pellets 15.0-3.0-4.0	14
Blue Seal Energizer 16 Dairy Pellets 16.0-3.2-5.5	1
Blue Seal Milk Maker 16 Dairy Pellets 16.0-3.0-8.5	10
Blue Seal Contender Horse Feed Pellets 16.0-3.5-7.5	7
Blue Seal Dari-Meal 16 16.0-3.2-5.5	1
Blue Seal Bunny 16 Pels 16.0-2.5-18.0	8
Blue Seal Hi-Test Plus 18 Dairy Pellets 18.0-3.0-7.0	1
Blue Seal Stampede Horse Feed 18.0-3.0-9.0	2
Blue Seal Fat & Finish Pellets 18.0-4.5-3.5	9
Blue Seal Lamb Starter-Grower Pellets 18.0-3.5-7.0	5
Blue Seal Hutch 18 Rabbit Pellets 18.0-2.5-15.0	12
Blue Seal Dairy Maid Milk Replacer 20.0-20.0-0.25	1
Blue Seal Milk Maker 20 Dairy Pellets 20.0-3.0-8.5	3
Blue Seal Gamebird Crumbles 20.0-4.5-4.0	1

Brands Substantially Complying with Guarantees (Cont'd)

Manufacturer & Brand	Number Samples Analyzed
<u>H. K. WEBSTER CO., INC. (Cont'd)</u>	
Blue Seal Partially Acidified Milk Replacer 20.0-20.0-0.15	1
Blue Seal Energizer 20 Dairy Pellets 20.0-3.2-5.5	2
Blue Seal Hi-Pro 20 Rabbit Pellets 20.0-2.5-12.0	7
Blue Seal Turkey Grower Pellets 20.0-4.5-4.0	9
Blue Seal Guinea Pig Pellets W/Vitamin C 20.0-4.0-16.0	7
Blue Seal Krunchies Dog Food 21.0-8.0-4.0	3
Blue Seal Broiler Crumbles-CB 21.0-6.5-3.0	1
Blue Seal Sunshine Plus W/Yeast Culture 25.0-2.0-4.0	2
Blue Seal Natural "26" Dog Food 26.0-10.0-4.0	1
Blue Seal Ultra "27" Dog Food 27.0-15.0-4.0	1
Blue Seal Solvent Extracted Soybean Meal 48.0-0.5-3.3	3
<u>WELLS PET FOOD CORP.</u>	
Sportmix Chunk Style Dog Food 21.0-8.0-5.0	1
Sportmix High Protein Dog Meal 27.0-10.0-4.0	2
Bonnie Chunk Style Dog Food 18.0-6.0-8.0	1
<u>R. & R. WIRTES FARM</u>	
R. & R. Wirtes Farms Sheperd's Mix 15.0-3.2-7.5	1
R. & R. Wirtes Farms General Purpose Fitting 10.0-2.8-6.0	1
R. & R. Wirtes Farms Poultry Mix 17.0-2.8-5.5	1
R. & R. Wirtes Farms Hog Mix 14.0-3.2-4.5	1

Brands Not Conforming to Guarantees

This table includes brands that are one percent or more under guarantee in protein or fat or are one and one-half percent or more over guarantee in fiber.

Manufacturer & Brand	PROTEIN			FAT		FIBER	
	Guar- anteed	Found		Guar- anteed	Found	Guar- anteed	Found
<u>AGWAY, INC.</u>							
Agway Pro-Right 2000-40	40.0	37.4	**	0.75	3.0	5.0	3.4
Agway Country Game & Turkey Grower	21.0	19.8	**	3.0	3.2	4.5	2.8
Agway Country Game & Turkey Grower	21.0	18.7	**	3.0	3.4	4.5	2.7
Agway Pro-Right 2000-40	40.0	38.3	**	0.75	2.6	5.0	2.9
Agway 48% Solvent Extracted Soybean Meal	48.0	46.6	**	0.5	0.9	3.5	3.2
<u>PURINA MILLS, INC.</u>							
Purina Pure Pride #200 Horse Feed	14.0	12.4	**	2.5	2.5	8.0	6.6
Purina Pure Pride #300	16.0	14.3	**	2.5	3.1	8.0	8.0
<u>BERNARDSTON GRAIN MILL, INC.</u>							
Excel Laying Mash	15.0	13.5	**	3.0	3.3	6.0	2.9
<u>UNITED CO-OPERATIVE FARMERS, INC.</u>							
U.C.F. Rabbit Pellets	17.0	15.8	**	3.0	3.0	17.0	11.0
U.C.F. 40 Dairy Supplement	40.0	38.6	**	1.5	1.2 *	7.0	3.1
<u>VENTURA GRAIN CO., INC.</u>							
Every Day Turkey Finisher 17% ...	17.0	16.6	*	5.0	3.1 **	4.5	1.8
<u>H. K. WEBSTER CO., INC.</u>							
Blue Seal Lamb Starter Grower ...	18.0	18.6		3.5	2.2 **	7.0	3.0
Blue Seal Fat & Finish	18.0	16.6	**	4.5	4.1 *	3.5	2.3

* Within Tolerance

** Deficient

Brands Containing Drugs

Manufacturer & Brand	Drug	Guaranteed % or g/T	Found % or g/T
<u>AGWAY, INC.</u>			
Agway Country Chicken Grower Bits	Amprolium	.004%	.0037%
Agway Country Chicken Grower Bits	Amprolium	.004	.0034 *
Agway Country Chicken Grower Bits	Amprolium	.004	.0034 *
Agway Country Chicken Grower Bits	Amprolium	.004	.0038
Agway Country Chicken Grower Bits	Amprolium	.004	.0037
Agway Country Chicken Grower Bits	Amprolium	.004	.0035 *
Agway Country Chick Starter	Amprolium	.004	.0029 **
Agway Country Chick Starter	Amprolium	.004	.0034 *
Agway Country Chick Starter	Amprolium	.004	.0030 *
Agway Country Broiler Maker	Amprolium	.0125	.0125
Agway Country Broiler Maker	Amprolium	.0125	.0126
Agway Country Broiler Maker	Amprolium	.0125	.0123
Agway Gro:Right Complete Calf 1	Chlortetracycline	18 g/T	20 g/T
Agway Gro:Right Complete Calf 1	Chlortetracycline	18	19
Agway Gro:Right Complete Calf 1	Chlortetracycline	18	17
Agway Gro:Right Complete Calf 1	Chlortetracycline	18	13 *
Agway Gro:Right Complete Calf 1	Chlortetracycline	18	13 *
Agway Gro:Right Complete Calf 1	Chlortetracycline	18	16
Agway Gro:Right Complete Calf 1	Chlortetracycline	18	15 *
Agway Hi-Energy Lamb Pellets	Chlortetracycline	50	45 *
Agway Hi-Energy Lamb Pellets	Chlortetracycline	50	51
Agway Hi-Energy Lamb Pellets	Chlortetracycline	50	44 *
Agway Hi-Energy Lamb Pellets	Chlortetracycline	50	46
Agway Hi-Energy Lamb Pellets	Chlortetracycline	50	52

Brands Containing Drugs (Cont'd)

<u>Manufacturer & Brand</u>	<u>Drug</u>	<u>Guaranteed % or g/T</u>	<u>Found % or g/T</u>
<u>AGWAY, INC. (Cont'd)</u>			
Agway Hi-Energy Lamb Pellets	Chlortetracycline	50 g/T	55 g/T
Agway Hi-Energy Lamb Pellets	Chlortetracycline	50	51
Agway Red Label Milk Replacer	Chlortetracycline	150	188 *
Agway Blue Label Milk Replacer	Oxytetracycline	100	100
Agway Blue Label Milk Replacer	Oxytetracycline	125	125
Agway Blue Label Milk Replacer	Oxytetracycline	125	119 *
Agway Blue Label Milk Replacer	Oxytetracycline	125	0 **
<u>PURINA MILLS, INC.</u>			
Purina Meat Builder Poultry Feed	Amprolium	.0125%	.0119% *
Purina Start & Grow	Amprolium	.0125	.0114 *
Purina Hog Grower Chow	Oxytetracycline	50 g/T	35 g/T *
Purina Hog Grower Chow	Oxytetracycline	50	38 *
<u>UNITED CO-OPERATIVE FARMERS, INC.</u>			
U.C.F. Starter	Amprolium	.008%	.0067% *
U.C.F. Starter	Amprolium	.008	.0129 ***
U.C.F. Instant Mix Milk Replacer	Chlortetracycline	50 g/T	54 g/T
U.C.F. Milk Replacer Hi-Fat	Chlortetracycline	50	55
U.C.F. Turkey Grower Pellets	4-Nitrophenylarsonic Acid	.01875%	.01835%
U.C.F. Turkey Grower Pellets	4-Nitrophenylarsonic Acid	.01875	.01544 *
U.C.F. Turkey Grower Pellets	4-Nitrophenylarsonic Acid	.01875	.01769
U.C.F. Turkey Grower Pellets	4-Nitrophenylarsonic Acid	.01875	.01544 *
<u>VENTURA GRAIN CO., INC.</u>			
Every Day Chick Starter	Amprolium	.0125	.0123
<u>H. K. WEBSTER CO., INC.</u>			
Blue Seal Grower Cal AM	Amprolium	.00625	.0061
Blue Seal Chick Starter AM	Amprolium	.0125	.0113 *
Blue Seal Turkey-Game Bird Starter	Amprolium	.0125	.0123
Blue Seal Chick Starter AM	Amprolium	.0125	.0121
Blue Seal Turkey Grower Pellets HS	Nitarstone	.01875	.01670 *

Brands Containing Drugs (Cont'd)

<u>Manufacturer & Brand</u>	<u>Drug</u>	<u>Guaranteed % or g/T</u>	<u>Found % or g/T</u>
<u>H. K. WEBSTER CO., INC. (Cont'd)</u>			
Blue Seal Piglet Crumbles	Oxytetracycline	50 g/T	51 g/T
Blue Seal Milky Way Milk Replacer	Oxytetracycline	50	52
Blue Seal Milky Way Milk Replacer	Oxytetracycline	50	95 ***

* Within Tolerance

** Deficient

*** Excessive

SEED LABORATORY REPORT NO. 61 FOR 1988

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SEED LABORATORY REPORT

FOR 1988 SEASON

Report No. 61 By the Seed Laboratory of the

Feed, Seed, and Fertilizer Laboratory

West Experiment Station, Amherst, MA 01003

UNIVERSITY OF MASSACHUSETTS
COLLEGE OF FOOD & NATURAL RESOURCES
AGRICULTURAL EXPERIMENT STATION

E. Bruce MacDougall, Director
Richard A. Rohde, Associate Director
Edward F. Vlach, Official Chemist in Charge

SEED LABORATORY STAFF:

Carl H. Eiben, Assoc. Prof., Seed Analyst
Betty A. Start, Typist I

STATE SEED INSPECTORS:

James M. Cassidy, Control Officer
George M. Porter, Inspector
Daniel J. Burns, Inspector
Robert Rondeau, Inspector
Louis D. Siano, Inspector

INTRODUCTION

This report of seed inspection is a record of the work assigned to the Agricultural Experiment Station by the Seed Law. The enforcement and regulations are administered by the Control Officer, Department of Food & Agriculture, Boston, MA.

The Seed Laboratory is maintained to test official and service samples, provide technical information, and determine if seed lots are labeled correctly.

TABLE I SUMMARY OF SAMPLES FOR 1988

KIND OF SAMPLES	NO. REC'D	Number of Analysis Scheduled		
		GERMINATION	PURITY	NOXIOUS WEED
<u>OFFICIAL SAMPLES</u>				
Agricultural Crops	62	62	57	25
Grass Mixtures	55	97	37	37
Vegetables & Herbs	<u>580</u>	<u>580</u>	<u>--</u>	<u>--</u>
<u>TOTAL OFFICIAL</u>	<u>697</u>	<u>739</u>	<u>94</u>	<u>62</u>
 <u>SERVICE SAMPLES</u>				
Agricultural Crops	13	13	5	--
Grass Mixtures	12	32	--	--
Vegetables	74	74	3	--
Flowers (Research)	<u>4</u>	<u>4</u>	<u>--</u>	<u>--</u>
<u>TOTAL SERVICE</u>	<u>103</u>	<u>123</u>	<u>8</u>	<u>0</u>
 <				

FEDERAL SEED LAW VIOLATIONS

Since most seed sold in Massachusetts is produced in other states, it becomes part of interstate commerce regulated by the Federal Seed Act. If our tests indicate a serious violation, the seed control officer forwards the information to the Federal Seed Laboratory. The state seed inspectors also sent 22 vegetable samples to the Federal Field Trials.

The following seed companies were cited and warned:

- 1) Seaboard Seed Company on a Kentucky bluegrass sample - more than 15% inert.
- 2) Channel Home Centers on a lawn mixture sample - annual bluegrass not listed as a noxious weed on the label.

CLASSIFICATION OF VIOLATIONS IN OFFICIAL SAMPLES

The official seed samples represent a cross section from as many lots and sources as possible which present an unbiased survey of seed being offered for sale in Massachusetts. Most of the samples were found to be labeled correctly, but 2.0% were found to be mislabeled. Any findings which are different from the labeled information or in variance with the Seed Law were reported to the wholesaler, retailer and Seed Control Official.

The details of the specific points of violation are given in four tables which follow this section under four general kinds of seeds tested--Agricultural, Mixtures, Vegetables, Flowers. In these tables, notations are made as to whether the violations are serious, minor, or technical. This classification is based on the following:

SERIOUS (S) is assigned when laboratory findings are:

1. below the label by more than twice the official tolerance (Rules of AOSA) for the percent by weight of any pure seed component or its germination, or more than label for weeds or Restricted Noxious Weed.
2. grossly mislabeled as to content or use.
3. under 95% claim for seed count or seed weight.
4. less than two-thirds germination standard (unfit for seeding).
5. over one percent weeds.
6. Prohibited Noxious Weed present.
7. treated when not labeled as treated or vice versa.

MINOR (M) is assigned when laboratory findings are:

1. below the label by more than official tolerance for percentage by weight of any pure seed component or its germination.
2. more than the label for pure seed component, weed seed or Restricted Noxious Weed.
3. more than double the official tolerance for inert matter and crop seeds.
4. mislabeled as to use or description.
5. below stated or standard of germination.
6. date of germination is older than 9 months.

TECHNICAL (T) is assigned when laboratory findings show the quality of seed is within tolerance of the label, but not as to:

1. name or kind improperly used, or missing.
2. germination percentage missing.
3. date of test or year packaged missing or illegible.
4. arithmetic mistake in purity total.
5. not stated as pelleted.

TABLE II SAMPLES OF GRASS MIXTURES REPORTED AS MISLABELED

<u>LABELER/SHIPPER</u> Seller/Consignee	<u>KIND, VARIETY</u> Lot # Lab #	<u>VIOLATIONS</u>	<u>SERIOUS</u> <u>S</u>
		Labeled <u>L</u>	MINOR <u>M</u>
		Found <u>F</u>	TECHNICAL <u>T</u>
<u>CRAWFORD GARDEN SUPPLIES</u> PROVIDENCE, RI The Fair Aubin, MA	(1) Shady Grass Mixture 1035 88-101	Abbreviations not acceptable on variety of perennial ryegrass New Zealand	<u>REQUIRED</u> <u>T</u>
	(2) U.R.I. # Lawn Mixture 1021 88-102	Purity of Kentucky Other Crop	<u>DEFICIENT</u> <u>M</u> <u>EXCESSIVE</u> <u>M</u>
<u>GARFIELD-WILLIAMSON</u> FAIRFIELD, NJ Channel Home Centers Chelmsford, MA	Dense Shade Lawn Mixture WDS 288 88-1071	Kentucky bluegrass present, not on label Label should be upright on box	<u>REQUIRED</u> <u>S</u> <u>REQUIRED</u> <u>T</u>
<u>JONATHAN GREEN & SONS</u> FARMINGDALE, NJ Gilmore's Walpole, MA	Special Blend Mixture 31415H 88-221	Purity of creeping red fescue Purity of annual ryegrass	<u>DEFICIENT</u> <u>S</u> <u>EXCESSIVE</u> <u>S</u>
<u>J. & L. ADIKES</u> JAMAICA, NY Flower Time #52 Springfield, MA	Quick Green Grass Mixture 235 88-3088	Purity Total more than 100%	<u>INACCURATE</u> <u>T</u>
<u>RINGER CORPORATION</u> MINNEAPOLIS, MN Simoni's Flowers Norwood, MA	Grass Patch Northern Blend Mixture 10050 88-2044	Germination of creeping red fescue less than stated L 85, F 67	<u>DEFICIENT</u> <u>M</u>
<u>SEABOARD SEED</u> BRISTOL, IL Ames Dept. Store #216 East Wareham, MA	Shady Lawn Mixture 091549.82 88-23	Annual bluegrass is a Noxious weed (Listed as undesirable grass seed)	<u>MANDATED</u> <u>M</u>

TABLE II SAMPLES OF GRASS MIXTURES REPORTED AS MISLABELED (Cont'd)

<u>LABELER/SHIPPER</u> Seller/Consignee	<u>KIND, VARIETY</u> Lot # Lab #	<u>VIOLATIONS</u> Labeled <u>L</u> Found <u>F</u>	<u>SERIOUS</u> <u>S</u> MINOR <u>M</u> TECHNICAL <u>T</u>
<u>TURF RESEARCH</u> GRANT PARK, IL Rockland Hardware Rockland, MA	Versatile All- Purpose Lawn Mixture 8205 88-2085	Purity of red fescue Purity of Kentucky bluegrass Label should be upright on box	<u>DEFICIENT</u> <u>S</u> <u>EXCESSIVE</u> <u>S</u> <u>REQUIRED</u> <u>T</u>
<u>VAUGHAN'S SEED</u> BOUND BROOK, NJ Lexington Gardens Lexington, MA	65% Allstar Plus Mixture 8211 88-2002	Purity of ryegrass Other Crop	<u>DEFICIENT</u> <u>M</u> <u>EXCESSIVE</u> <u>M</u>

TABLE III SAMPLES OF VEGETABLE SEED REPORTED AS MISLABELED

<u>LABELER/SHIPPER</u> Seller/Congignee	<u>KIND, VARIETY</u> Lot # Lab #	<u>VIOLATIONS</u> Labeled <u>L</u> Found <u>F</u>	<u>SERIOUS</u> <u>S</u> MINOR <u>M</u> TECHNICAL <u>T</u>
<u>BENTLEY SEED</u> CAMBRIDGE, NY Ames Dept. Store #216 East Wareham, MA	Lettuce, Great Lakes 6 88-36	Germination Standard 80%, F 69	<u>DEFICIENT</u> <u>M</u>

APPENDIX I

MASSACHUSETTS AGRICULTURAL EXPERIMENT STATION
UNIVERSITY OF MASSACHUSETTS SEED LABORATORY
WEST EXPERIMENT STATION
AMHERST, MA 01003
TELEPHONE (413) 545-2311

FEES FOR SEED TESTING SERVICES

Effective July 1, 1987

Any person residing or doing business in the Commonwealth of Massachusetts may submit seeds for purity, germination, and noxious weed examination.

KIND	PURITY ANALYSIS & NOXIOUS WEED EXAM	GERMINATION TEST	COMBINED PURITY & GERMINATION TEST
Alfalfa	\$ 6.00	\$ 4.00	\$ 10.00
Alsike	6.00	4.00	10.00
Barley	5.00	3.00	8.00
Bentgrass	11.00	6.00	17.00
Bluegrass	11.00	6.00	17.00
Bromegrass	6.00	4.00	10.00
Buckwheat	5.00	3.00	8.00
Clovers	6.00	4.00	10.00
Corn, field	5.00	3.00	8.00
Fescues	9.00	5.00	14.00
Oats	5.00	3.00	8.00
Orchardgrass	9.00	5.00	14.00
Redtop	11.00	6.00	17.00
Rye	5.00	3.00	8.00
Ryegrass	9.00	5.00	14.00
Sorghum	5.00	3.00	8.00
Soybean	5.00	3.00	8.00
Sudangrass	6.00	3.00	9.00
Timothy	6.00	4.00	10.00
Tobacco	6.00	4.00	10.00
Wheat	5.00	3.00	8.00
<u>FIELD OR LAWN MIXTURES</u>			
Two components	13.00	6.00	19.00
Each additional	5.00	2.00	7.00
<u>FLOWERS</u>	9.00	4.00	13.00
<u>TREES & SHRUBS</u>	9.00	6.00	15.00
<u>VEGETABLES & HERBS</u>	7.00	2.50	9.00
NOXIOUS WEED EXAMINATION	3.00		

Cleaning Tobacco Seed: \$5.00 per pound or fraction of a pound based on original weight.

Kinds of Seeds Not Listed: Fees are based on charges for similar sized seeds.

Extra Dirty Samples and Other Service Requests: \$10.00 per hour on time consumed in making tests.

APPENDIX II

LABORATORY REGULATIONS

The minimum of weights of samples to be submitted for purity analysis and noxious weed examination are:

- a. Two ounces (55 grams) of alsike, bentgrass, bluegrass, redtop, timothy and white clover.
- b. Five ounces (140 grams) of alfalfa, bromegrass, fescues, orchardgrass, red clover, ryegrass and sudangrass.
- c. Eight ounces (225 grams) of all mixtures including grass, lawn, pasture and sprouting.
- d. One pound (454 grams) of barley, buckwheat, corn, oats, rye, sorghum, soybean and wheat.

The minimum number of seeds of any kind submitted for a germination test is 400. This includes the above mentioned seeds and vegetables, herbs, flowers, trees and shrubs. Seed test reports can only show the quality of the sample submitted; therefore, the submitted sample should be taken so as to represent the bulk of the seed to be tested.

The fee should accompany the sample in most cases (exception in mixtures), but if you are not certain, we will send a bill as soon as we receive the seed. The final laboratory report will be sent upon receipt of payment. Checks or money orders for the fees must be made payable to the Seed Law #280265-0190 and sent to the Seed Laboratory.

An official germination test is valid for nine months after the month the test is completed. Thus the report of a germination test made in October is good until August 1 of the following year. Samples for tests representing seed to be planted in the spring should be submitted after September 1, but before February 1. After that date and until July, the laboratory must give top priority to a heavy load of official samples picked up by state inspectors.

INSPECTION OF COMMERCIAL FERTILIZERS AND AGRICULTURAL LIME PRODUCTS

Report Number 114 for the Fiscal Year

Ending 1988

By the Fertilizer Laboratory Staff
of the Feed, Seed, and Fertilizer Laboratory
West Experiment Station, Amherst, MA 01003

UNIVERSITY OF MASSACHUSETTS
COLLEGE OF FOOD & NATURAL RESOURCES
AGRICULTURAL EXPERIMENT STATION

Director, E. Bruce MacDougall

FEED & FERTILIZER STAFF:

Edward F. Vlach, Official Chemist in Charge
Paul Korpita, Chemist II
David Houle, Chemist I
John Melnick, Technical Assistant
Betty A. Start, Typist I

Mixtures Substantially Complying with Guarantees

Manufacturer & Brand	Number Samples Analyzed
<u>J. & L. ADIKES, INC.</u>	
Gro-Well Garden Food 5-10-5	1
Gro-Well Autumn Lawn Builder 22-4-12	1
<u>AGRICO CHEMICAL CO.</u>	
Agrico 0-10-40	1
<u>AGRITURF, INC.</u>	
Agriturf Fertilizer 0-15-30	1
Agriturf Fertilizer 5-10-10	1
Agriturf Custom Blend 7.25-0-18.7	1
Agriturf Fertilizer 10-10-10	1
Agriturf Liquid Custom Blend 15-1-6	1
Agriturf Custom Blend 24-12-18	1
<u>AGWAY, INC.</u>	
Agway Blend-Rite 3-6-20	1
Agway Garden Plant Food 5-10-5	8
Agway Blend-Rite 5-10-10	5
Agway Nutri-Bond Ammoniated 5-10-10	4
Agway Custom Blend 5-24-24-0.38%B	2
Agway Blend-Rite Alfa B W/Boron 0-10-40	4
Agway Evergreen Plant Food W.I.N. 2.6% 8-4-4	4
Agway Super Garden Plant Food 8-16-16	11
Agway "Blue Chip" Turf Food 10-5-5	3
Agway Turfood Fertilizer 10-6-4	10
Agway Turfood Special Fertilizer W.I.N. 1.7% 10-6-4	8
Agway Turfood Special W/Broadleaf Weed Killer W.I.N. 1.75% 10-6-4	1
Agway Turfood Professional W.I.N. 3.5% 10-6-4	4
Agway Blend-Rite 10-10-10	8
Agway Nutri-Bond Super W/Micros 10-10-10	4
Agway Nutri-Bond Ammoniated Corn Starter 10-20-10	7
Agway Blend-Rite 10-20-20	1
Agway Nutri-Bond Ammoniated 10-20-20	4
Agway Blend-Rite 0-15-30	1
Agway Blend-Rite 15-8-12	8
Agway Nutri-Bond Ammoniated Crop Starter & Sidedresser 12-12-12	1
Agway Blend-Rite 15-15-15	3
Agway Nutri-Bond Ammoniated 15-15-15	1
Agway Greenlawn Fall/Winter 16-4-8	2
Agway Blend-Rite 19-19-19	6
Agway Greenlawn Plus Dacthal Crabgrass Killer W.I.N. 5.0% 20-5-7	2
Agway Turfood W.I.N. 7.0% 20-5-10	1
Agway Sol-U-Green W/Micronutrients 20-20-20	2
Agway Greenlawn Plus Weed Killer W.I.N. 5.3% 21-5-7	5
Agway Blend-Rite 21-0-21	1
Agway Greenlawn W.I.N. 5.5% 22-6-8	17
Agway Green Tee Turf Fertilizer W.I.N. 10.0% 25-5-10	1
Agway Grass Roots Weed & Feed 28-5-11	2

Mixtures Substantially Complying with Guarantees (Cont'd)

Manufacturer & Brand	Number Samples Analyzed
<u>AGWAY, INC. (Cont'd)</u>	
Agway Grass Roots Fertilizer 30-6-12	6
Agway Blend-Rite 32-3-5	1
Agway Professional Hi-Density 32-5-7	1
<u>BLACK LEAF PRODUCTS CO.</u>	
Black Leaf Liquid Fertilizer 3-10-3	1
Black Leaf Fish Emulsion 5-4-4	2
<u>BURPEE GARDEN PRODUCTS CO.</u>	
Burpee Grow Fertilizer for Vegetables W.I.N. 4.0% 17-23-6	1
Burpee Fruit, Nut, Citrus W.I.N. 5.2% 18-11-12	1
<u>CADWELL & JONES, INC.</u>	
C. & J. Specialty Fertilizer 18-18-18	1
<u>CHANNEL HOME CENTERS</u>	
Green N' Gro All Purpose 10-6-4	1
Green N' Gro Start Up Fertilizer 18-24-6	1
Green N' Stop Turf Food/Crabgrass Preventer 20-5-5	1
Green N' Gone Turf Food/Weed Control 26-3-3	1
Green N' Gro Turf Food 27-3-3	1
Green N' Gro Super Turf Food 32-4-4	1
<u>CHEVRON CHEMICAL CO./ORTHO CONSUMER PRODUCTS</u>	
Ortho Up-Start Plant Starter 5-15-5	1
Ortho Vegetable Food 8-10-8	1
Ortho General Purpose Plant Food 10-10-10	2
Ortho Flower Garden Food 11-8-7	1
Ortho-Gro Liquid Plant Food 12-6-6	1
<u>CROP PRODUCTION SERVICES, INC.</u>	
C.P.S. Fertilizer 5-10-10	6
C.P.S. Fertilizer 8-24-16	1
C.P.S. Village Green 10-6-4	2
C.P.S. Bulk Blend 10-7-31	1
C.P.S. Bulk Blend 10-10-10	1
C.P.S. Village Green 10-10-10	2
C.P.S. Fertilizer 10-10-10	5
C.P.S. Bulk Blend 10-20-24	1
C.P.S. Bulk Blend 15-5-30	1
C.P.S. Bulk Blend 15-15-15 1.8Mg-.01B 0.19Zn	1
C.P.S. Fertilizer 15-15-15	1
C.P.S. Fertilizer 40% Organic 18-5-9	1
C.P.S. Fertilizer 20-5-25	1
C.P.S. Village Green 36-3-10	1
<u>DERBY FEED CO., INC.</u>	
Derby's All Purpose Fertilizer 5-10-5	1

Mixtures Substantially Complying with Guarantees (Cont'd)

<u>Manufacturer & Brand</u>	<u>Number Samples Analyzed</u>
<u>THE ESPOMA COMPANY</u>	
Espoma Plant-Tone Soil Conditioner 4-3-2	1
Espoma Holly-Tone 4-6-4	2
Espoma Rose-Tone 6-6-4	1
Espoma Turf-Tone 10-6-4	1
Espoma Organic Lawn Food 18-8-6	1
<u>ESTECH, INC./DIVISION OF VIGORO INDUSTRIES</u>	
Gro-Tone Plant Food W.I.N. 1.5% 5-10-5	1
Gro-Tone Plant Food 50% Organic Nitrogen W.I.N. 1.5% 5-10-5	1
Gro-Tone Evergreen Food W.I.N. 1.08% 6-8-6	2
Wood Ace Plus EDTA 14-3-3	1
<u>FAESY & BESTHOFF, INC.</u>	
F & B Bone Meal W.I.N. 4.0% 4-12-0	1
F & B Garden Food W.I.N. 1.0% 5-10-5	1
F & B Evergreen Food W.I.N. 1.35% 7-7-7	1
<u>THE FER-MEL CORPORATION</u>	
Fer-Mel Premium Lawn Food 25-5-10	1
<u>FRANK'S NURSERY & CRAFTS, INC. + FLOWER TIME, INC.</u>	
Longlife Fall Lawn Fertilizer 24-3-12	1
<u>GARFIELD-WILLIAMSON, INC.</u>	
Wonderlawn Fall Lawn Fertilizer W.I.N. 1.65% 11-14-10	1
<u>GLORION CORPORATION-LAWN & GARDEN DIV.</u>	
Glorion Turf Food 20-3-3	1
<u>GREEN MTN. FERTILIZER CO.-DIV. L.D. OLIVER SEED</u>	
Green Mountain Fertilizer 5-10-10	1
Green Mountain Fertilizer 10-6-4	1
Green Mountain Fertilizer 50% Organic 10-6-4	1
Green Mountain Fertilizer 10-10-10	1
<u>A. H. HOFFMAN, INC.</u>	
Hoffman Bulb Food 3-10-6	1
Hoffman Tomato Food 5-10-10	1
<u>HOLLAND BULB PRODUCTS</u>	
Holland Bulb Booster Fertilizer 9-9-6	1
<u>HOWARD JOHNSON ENTERPRIZES, INC.</u>	
Turf Food Surety 26-3-3	1
<u>HYPONEX CORPORATION</u>	
Hyponex All Seasons Lawn Fertilizer 20-5-20	1
Hyponex Weed & Feed 28-3-7	1
Hyponex Lawn Fertilizer 29-4-8	1

Mixtures Substantially Complying with Guarantees (Cont'd)

Manufacturer & Brand	Number Samples Analyzed
<u>THE HY-TROUS CO.</u>	
Hy-Trous Liquid Plant Food 5-10-5	1
<u>JONATHAN GREEN & SONS, INC.</u>	
Jonathan Green Fertilizer 5-10-5	1
Jonathan Green for Trees & Turf 10-6-4	1
Jonathan Green Lawn Builder 10-6-4	1
Jonathan Green Seeding Fertilizer 14-28-15	3
Jonathan Green Weed & Feed 19-4-4	1
Jonathan Green Weed & Feed W.I.N. 3.0% 19-4-4	1
Jonathan Green New Super Green-Up 27-3-7	2
Jonathan Green Spring Green Up W/Crabgrass Preventer W.I.N. 3.2% 28-3-5	1
<u>LEBANON CHEMICAL CORPORATION</u>	
Lebanon Lawn & Garden Food 5-10-5	3
Lebanon Vegetable Garden Food 5-10-10	5
Lebanon A-C-R-E W.I.N. 1.5% 9-5-3	3
Lebanon Greenview Green Start 9-17-9	3
Lebanon Pelleted Grass Food W.I.N. 3.0% 10-6-4	3
Lebanon GreensKeeper 50% Organic Nitrogen W.I.N. 3.0% 10-6-4	2
Lebanon Fertilizer 10-10-10	5
Lebanon Homestead Extra 10-10-10	1
Greenview Winter Green 10-16-20	1
Lebanon Re-Nu Lawn Food 10-18-10	1
Lebanon Fertilizer 10-20-10	1
Lebanon Fertilizer 10-20-20	1
Lebanon Country Club Fertilizer 13-25-12	1
Green Pro Fall Grass Food 13-25-12	1
Lebanon Extra 14-14-14	1
Lebanon Professional Tree Food W.I.N. 3.4% 16-4-8	1
Lebanon Country Club 90% Organic W.I.N. 10.0% 18-4-10	1
Green Gold Lawn Food W/Crabgrass Control W.I.N. 2.9% 19-4-4	1
Green Gold Lawn Food W/Insect & Grub Control W.I.N. 3.0% 19-4-4	1
Lebanon Country Club W/Dursban Insect Control W.I.N. 3.0% 19-4-6	1
Lebanon Country Club W/Crabgrass Preventer W.I.N. 3.2% 19-4-6	1
Homestead Lawn Food 20-3-3	3
Lebanon GreensKeeper 50% Organic Nitrogen W.I.N. 6.0% 20-8-8	2
Green Gold Weed & Feed W/2,4D+MCPP W.I.N. 6.0% 25-3-5	5
Green Gold Lawn Food W.I.N. 6.0% 26-4-6	6
Lebanon Turf Master Lawn Food W.I.N. 2.0% 27-3-3	1
Greenview Green Power Lawn Fertilizer W.I.N. 7.5% 30-4-4	16
Greenview 2-Way Green Power Weed & Feed W.I.N. 7.5% 30-4-4	5
Green Pro Grass Food W.I.N. 8.0% 32-4-4	1
Lebanon Professional Turf Products 32-4-8	1
<u>LEFFINGWELL UNIROYAL CHEMICAL</u>	
Nutra-Phos Super K 7-13-34	1

Mixtures Substantially Complying with Guarantees (Cont'd)

<u>Manufacturer & Brand</u>	<u>Number Samples Analyzed</u>
<u>LOFT'S, INC.</u>	
Loft's Professional Lawn Food 25-5-10	1
Loft's Starter Fertilizer 18-24-6	1
Loft's Lawn Food 28-3-8	2
<u>MASSACHUSETTS NURSERYMEN'S ASSOC.</u>	
M.N.A. Country Gardener 5-10-5	2
M.N.A. Plant - O - Ganic W.I.N. 4.0% 8-8-8	3
M.N.A. Turf - O - Ganic W.I.N. 5.0% 10-6-4	6
M.N.A. Professional Lawn Food W.I.N. 6.0% 26-4-6	1
<u>NUTRICO, INC.</u>	
Flower Time Premium Weed & Feed W/Trimec W.I.N. 5.0% 24-3-7	1
Flower Time Premium Lawn Fertilizer W.I.N. 6.0% 24-4-8	2
<u>NUTRITE, INC.</u>	
Nutrite 19-19-19	1
<u>OLD FOX CHEMICAL COMPANY</u>	
Old Fox Fertilizer 4-16-20	1
Old Fox Garden Food 5-10-5	1
Old Fox Fertilizer 5-10-10-1.2	5
Old Fox Fertilizer 6-3-6	1
Old Fox Fertilizer 7-7-7	1
Old Fox Turf Gran W.I.N. 3.0% 10-6-4	5
Old Fox Turf Food W.I.N. 5.0% 10-6-4	1
Old Fox Fertilizer 10-10-10	4
Old Fox Corn Starter 10-20-10	1
Old Fox Fertilizer 12-18-18	1
Old Fox Fertilizer 15-15-15	1
Old Fox Fertilizer W/Team Crabgrass Control 19-3-6	1
Old Fox Green Gro W.I.N. 4.8% 20-4-8	1
<u>PARKER FERTILIZER COMPANY</u>	
Parker's Fertilizer 10-10-10	1
<u>PETER'S FERTILIZER PRODUCTS-W.R. GRACE & CO.</u>	
Peter's Concentrated Liquid Plant Food 5-10-5	2
Peter's Professional Soluble Houseplant Food 15-30-15	1
Peter's Professional All Purpose 20-20-20	1
<u>PLANTCO, INC.</u>	
Plantex-Hydroponic Fertilizer 10-6-16	1
Plantex-All Purpose Fertilizer 20-20-20	1
<u>RAPID-GRO CORPORATION</u>	
Rapid-Gro Plant Food 23-19-17	1
<u>RINGER CORPORATION</u>	
Ringer Lawn Restore W.I.N. 7.5% 9-4-4	3

Mixtures Substantially Complying with Guarantees (Cont'd)

Manufacturer & Brand	Number Samples Analyzed
<u>ROSS DANIELS, INC.</u>	
Ross Gro-Stakes for Fruit & Ornamental Trees & Shrubs 8-16-16	2
Ross Gro-Stakes for Evergreens 10-10-10	2
Ross Gro-Stakes for Trees & Shrubs 16-10-9	2
Ross Tree & Shrub Root Feeder Cartridges 25-10-10	1
<u>SCHULTZ COMPANY</u>	
Schultz-Instant-Liquid Plant Food 10-15-10	1
<u>O. M. SCOTT & SONS CO.</u>	
Scotts Starter Fertilizer W.I.N. 4.0% 17-23-6	3
Scotts Winterizer Lawn Fertilizer W.I.N. 2.9% 19-3-12	1
Scotts Turf Builder Plus 2 W.I.N. 1.3% 27-3-3	4
Scotts Turf Builder Plus Halts W.I.N. 1.3% 27-3-3	2
Scotts Turf Builder Lawn Fertilizer W.I.N. 1.3% 28-3-3	5
Scotts Lawn Pro Lawn Fertilizer W.I.N. 5.6% 37-3-3	4
<u>SEACOAST LABORATORIES, INC.</u>	
Seacoast Garden Food 5-10-5	1
Twin Light Starter Lawn Food 10-18-12	1
Twin Light Pro Winter Turf Food 10-20-18	2
Professional Starter Fertilizer Plus Iron 10-20-18	1
Twin Light Pro Autumn Turf Food 20-4-12	1
Twin Light Professional Turf Food 24-4-6	1
Super Turf Food 26-6-12	1
<u>SIERRA CHEMICAL CO.</u>	
Osmocote Continuous Feeding Plant Food 14-14-14	1
Osmocote Tomato/Vegetable & Bedding Plant Food 14-14-14	1
<u>SIXTEEN ACRES GARDEN CENTER</u>	
Sixteen Acres Turf Food W.I.N. 4.8% 20-3-10	1
<u>STANFORD SEED CO.-CONSUMER PRODUCTS DIV.</u>	
Old English-Start-Tilizer-Fall-Tilizer 8-20-10	5
Old English Weed Control W/Fertilizer 18-3-5	1
Old English Lawn Fertilizer 22-3-5	1
Old English Lawn Fertilizer W/S & Fe 28-4-8	3
<u>STERN'S MIRACLE-GRO PRODUCTS, INC.</u>	
Stern's Miracle-Gro Liquid 8-7-6	1
Stern's Miracle-Gro Plant Food 15-30-15	3
Stern's Miracle-Gro for Tomatoes 18-18-21	3
Stern's Miracle-Gro Patio Plant Food 20-20-20	1
Stern's Miracid 30-10-10	1
<u>STERN'S NURSERIES, INC.</u>	
Stern's Miracle-Gro Plant Food 15-30-15	1
Stern's Miracid 30-10-10	1

Mixtures Substantially Complying with Guarantees (Cont'd)

Manufacturer & Brand	Number Samples Analyzed
<u>TRUE VALUE-COTTER & CO.</u>	
Green Thumb House Plant Food 5-10-5	1
Green Thumb Plant Food 15-30-15	1
<u>UNIVERSAL CHEMICAL CO., INC.</u>	
Electra Plant Food W.I.N. 2.5% 5-10-3	3

Mixtures Showing Deficiencies Exceeding Tolerances

Manufacturer & Brand	Nitrogen Found		Available Phosphoric Acid	Water Soluble Potash
	Water	Total		
	Insoluble			
J. & L. ADIKES, INC.				
Gro-Well Lawn Food W.I.N. 3.0%				
10-6-4	4.3 *	9.1 **	5.6 *	3.4 **
AGRITURF, INC.				
Agriturf Fertilizer 15-7-11		13.5 **	7.5	8.8 **
Agriturf Fertilizer 0-25-25		----	23.99 **	25.5
AGWAY, INC.				
Agway Garden Plant Food 5-10-5 ...		4.5 *	9.22 **	4.1 **
Agway Garden Plant Food 5-10-5 ...		4.5 *	9.25 **	4.3 **
Agway Garden Plant Food 5-10-5 ...		4.5 *	8.76 **	4.3 **
Agway Garden Plant Food 5-10-5 ...		5.9	7.75 **	4.3 **
Agway Nutri-Bond 5-10-10		4.9	9.37 *	8.3 **
Agway Blend-Rite 5-10-10		5.0	8.67 **	9.7
Agway Blend-Rite 5-10-10		5.0	9.67 *	8.8 **
Agway Blend-Rite 5-10-10		4.6 *	8.63 **	8.9 **
Agway Nutri-Bond Ammoniated 5-10-10		4.3 **	9.33 *	9.2 **
Agway Blend-Rite 5-10-10		4.6 *	10.0	9.0 **
Agway Blend-Rite 5-10-10		4.1 **	7.98 **	7.4 **
Agway Blue Chip Turf Food W.I.N.				
7.3% 10-5-5	10.2 *	10.7	4.19 **	5.0
Agway Turfood Fertilizer 10-6-4 ..		9.3 **	6.8	4.5
Agway Turfood Fertilizer 10-6-4 ..		8.8 **	5.01 **	4.0
Agway Turfood Fertilizer 10-6-4 ..		9.2 **	6.3	3.8
Agway Turfood Fertilizer 10-6-4 ..		8.9 **	6.1	4.6
Agway Turfood Fertilizer 10-6-4 ..		8.1 **	5.4 *	3.9
Agway Turfood Special W.I.N. 1.7%				
10-6-4	2.8 *	8.6 **	6.4	3.9
Agway Blend-Rite 10-10-10		9.3 **	9.14 **	10.0
Agway Blend-Rite 10-10-10		9.2 **	9.69 *	8.8 **
Agway Nutri-Bond Ammoniated 10-10-10		10.4	10.3	9.1 **
Agway Super Garden Plant Food				
8-16-16		7.7	14.25 **	16.0
Agway Nutri-Bond Taterbest				
10-15-15-1.2Mg		9.2 **	15.8	15.6
Agway Blend-Rite 10-20-10		9.8	18.95 **	10.4
Agway Nutri-Bond Corn Starter				
10-20-10		9.9	19.08 **	10.9
Agway Nutri-Bond 10-20-20		10.5	18.47 **	20.1
Agway Nutri-Bond Ammoniated 10-20-20		10.5	19.11 **	19.8
Agway Cran-Best 12-24-12		11.4 *	21.67 **	14.5
Agway Lawn Starter Fertilizer				
12-24-24		10.6 **	25.5	26.3
Agway Blend-Rite 15-8-12		13.9 **	7.98	11.6 *
Agway Blend-Rite 15-8-12		12.8 **	7.75	12.2
Agway Blend-Rite 15-15-15		14.1 **	15.2	14.0 **
Agway Nutri-Bond 15-15-15		14.4 *	13.48 **	15.8
Agway Nutri-Bond 15-15-15		15.1	13.40 **	15.2

Mixtures Showing Deficiencies Exceeding Tolerances (Cont'd)

Manufacturer & Brand	Nitrogen Found		Available Phosphoric Acid	Water Soluble Potash
	Water Insoluble	Total		
AGWAY, INC. (Cont'd)				
Agway Nutri-Bond 15-15-15		14.4 *	14.27 **	15.4
Agway Blend-Rite 15-15-15		13.9 **	15.1	15.5
Agway Blend-Rite 15-15-15		13.1 **	14.9	14.9
Agway Blend-Rite 19-19-19		17.0 **	16.50 **	19.4
Agway Blend-Rite 19-19-19		17.8 **	19.4	20.7
Agway Professional Turf Fertilizer 20-5-10		19.7	4.8	8.4 **
Agway Turf Fertilizer W.I.N. 7.0% 20-5-10	7.0	19.2 **	6.8	10.7
Agway Blend-Rite 21-7-21		19.1 **	7.0	22.6
Agway Blend-Rite 21-7-21		18.3 **	8.4	21.7
Agway Green Lawn W.I.N. 5.5% 22-6-8	6.1	23.1	6.9	6.0 **
Agway Green Lawn W.I.N. 5.5% 22-6-8	6.7	24.3	6.8	6.8 **
Agway Blend-Rite 23-12-18		21.7 **	12.3	19.4
Agway Blend-Rite 23-12-18		20.8 **	15.20	17.5 *
Agway Bulk Blend 23-12-18		23.1	9.65 **	22.5
Agway Custom Blend 23-12-18		23.5	8.39 **	22.6
Agway Grassroots Weed & Feed 28-5-11		29.6	3.78 **	12.8
Agway Grassroots Fertilizer 30-6-12		32.8	4.37 **	11.0 **
Agway Grassroots Fertilizer 30-6-12		25.1 **	8.0	14.7
Agway Acid-Green W/Micronutrients 30-10-10		26.8 **	12.4	11.9
Agway Acid-Green W/Micronutrients 30-10-10		27.4 **	11.7	12.8
CENTRAL CHEMICAL CORP., N.E.				
Central Chemical Fertilizer 6-0-31 3Mg 0.5B		8.5	----	28.5 **
CHEVRON CHEMICAL CO./ORTHO CONSUMER PRODUCTS				
Ortho Vegetable Food 8-10-8		7.4 *	8.61 **	8.4
Ortho Rapid-Gro Plant Food 23-19-17		23.2	17.76 **	18.5
CROP PRODUCTION SERVICES, INC.				
C.P.S. Village Green 5-10-5		4.2 **	7.92 **	4.6 *
C.P.S. Village Green 5-10-5		4.9	10.0	10.1 ***
C.P.S. Village Green 10-6-4		9.0 **	5.7	4.4
C.P.S. Village Green 10-6-4		8.0 **	6.2	4.4
C.P.S. Fertilizer 10-10-10		8.2 **	10.1	9.2 **
C.P.S. Village Green 10-10-10		15.9 ***	10.6	8.1 **
C.P.S. Village Green 10-10-10		15.4 ***	10.9	12.4
C.P.S. Fertilizer 10-20-20		7.2 **	16.29 **	25.7 ***
C.P.S. Fertilizer 15-8-12		14.9	7.11 **	14.5
C.P.S. Fertilizer 15-8-12		14.0 **	7.99	11.9
C.P.S. Fertilizer 15-15-15		14.4 *	14.04 **	16.6

Mixtures Showing Deficiencies Exceeding Tolerances (Cont'd)

Manufacturer & Brand	Nitrogen Found		Available Phosphoric Acid	Water Soluble Potash
	Water Insoluble	Total		
CROP PRODUCTION SERVICES, INC. (Cont'd)				
C.P.S. Custom Blend 19-19-19		17.8 **	19.0	21.0
C.P.S. Fertilizer 19-19-19		20.7	20.4	17.4 **
C.P.S. Custom Blend 20-5-25		23.7	5.1	21.5 **
C.P.S. Custom Blend 20-2-20		28.6 ***	4.1	19.8
C.P.S. Custom Blend 30-0-20		28.9 **	----	23.7
ESTECH, INC.				
Gro-Tone Plant Food 5-10-5		5.6	8.89 **	11.2 ***
Suburban Brand Fertilizer 5-10-5 .		4.4 *	8.42 **	5.1
Deerfield Plant Food 5-10-5		5.2	8.93 **	5.8
Gro-Tone Tomato Food 5-10-10		6.9	15.82 ***	11.4
Gro-Tone Evergreen Food W.I.N. 1.08% 6-8-6	2.03	7.6	6.56 **	6.5
Gro-Tone Evergreen Food W.I.N. 1.08% 6-8-6	2.4 *	6.7	9.0	5.3 **
Gro-Tone Evergreen Food W.I.N. 1.08% 6-8-6	1.1	5.7	6.02 **	6.0
Gro-Tone Rose Food W.I.N. 1.26% 7-10-5	1.6	5.5 **	6.8 **	4.3 **
Gro-Tone Turf & Tree Food 12-4-8 .		11.0 **	6.19	8.5
Mahoney's Rocky Ledge Weed & Feed 18-3-8		16.1 **	3.7	7.7
Mahoney's Rocky Ledge Weed & Feed 18-3-8		16.6 **	3.0	4.0 **
FAESY & BESTHOFF, INC.				
F & B Rose Food W/Chelated Iron W.I.N. 1.35% 8-10-4	6.0 ***	10.1	10.8	4.3
F & B Holly-Azalea, Rhododendron Food W/Chelated Iron W.I.N. 1.38% 5-10-10	2.8 *	6.2	10.9	8.5 **
FRANK'S NURSERY & CRAFTS, INC. + FLOWER TIME, INC.				
Longlife Premium Fall Lawn Fertilizer 24-3-12		23.1 **	3.3	11.9
W.R. GRACE & CO./AGRICULTURAL CHEMICALS GROUP				
Wonder-Gro Any Season Lawn Food W.I.N. 4.9% 28-4-4	8.1 ***	33.9 *	1.68 **	1.7 **
GREEN MTN. FERTILIZER CO.-DIV. L.D. OLIVER SEED				
Green Mountain Fertilizer 5-10-5 .		7.5 ***	11.77	6.0
Green Mountain Fertilizer 5-10-10.		4.6 *	9.6 *	9.0 **
INTERNATIONAL SPIKE, INC.				
Jobe's Plant Food 20-20-20		19.1 **	19.7	19.9

Mixtures Showing Deficiencies Exceeding Tolerances (Cont'd)

Manufacturer & Brand	Nitrogen Found		Available Phosphoric Acid	Water Soluble Potash
	Water	Total		
	Insoluble			
<u>JONATHAN GREEN & SONS, INC.</u>				
Jonathan Green Green-up 25-5-5 ...		23.4 **	5.1	6.0
Jonathan Green Super Green-up 27-3-7		25.9 **	3.2	8.6
<u>LEBANON CHEMICAL CORPORATION</u>				
Lebanon Extra 3-15-30		5.2	13.84 **	28.7 *
Lebanon Lawn & Garden Food 5-10-5.		6.2	11.1	3.4 **
Lebanon Vegetable Garden Food 5-10-10		7.6 ***	13.34 ***	9.8
Lebanon Vegetable Garden Food 5-10-10		5.7	9.27 **	9.7
Lebanon Vegetable Garden Food 5-10-10		6.5	8.56 **	8.2 **
Lebanon Extra 5-15-30		5.9	15.3	26.8 **
Lebanon Lawn Tree & Shrub 10-6-4 .		8.6 **	5.8	3.7
Lebanon GreensKeeper W.I.N. 3.0% 10-6-4	5.4 *	10.4	4.86 **	5.4
Lebanon Multi-Purpose Fertilizer 10-10-10		11.2	9.26 **	9.2 **
Lebanon Homestead Extra Multi- Purpose Fertilizer 10-10-10		9.8	11.2	8.9 **
Lebanon Green Gold Re-Nu Lawn Food 10-18-10		11.3	16.81 **	10.7
Lebanon Green Gold Re-Nu Lawn Food 10-18-10		10.8	17.08 **	10.5
Lebanon Green Gold Re-Nu Lawn Food 10-18-10		11.8	15.55 **	11.3
Lebanon Green Gold Re-Nu Lawn Food 10-18-10		11.5	16.89 **	9.8
Lebanon Green Gold Re-Nu Lawn Food 10-18-10		11.7	15.92 **	11.1
Lebanon Green Gold Re-Nu Lawn Food 10-18-10		11.7	16.94 **	9.9
Lebanon Green Gold Re-Nu Lawn Food 10-18-10		11.4	16.88 **	10.1
Lebanon Country Club 13-25-12		13.2	23.83 **	13.0
Lebanon Green Gold Lawn Food W.I.N. 6.0% 26-4-6	6.8	29.0	3.8	4.8 **
Lebanon Green View Green Power Lawn Fertilizer W.I.N. 7.5% 30-4-4	7.3	33.2	3.6 *	3.2 **
Lebanon Green Pro Grass Food W.I.N. 8.0% 32-4-4	9.9 *	33.7	3.9	2.8 **
<u>MASSACHUSETTS NURSERYMEN'S ASSOC.</u>				
M.N.A. Plant - O - Ganic W.I.N. 4.0% 8-8-8	3.7 *	8.2	6.92 **	10.5
M.N.A. Plant - O - Ganic W.I.N. 4.0% 8-8-8	3.7 *	8.3	8.4	14.6 ***

Mixtures Showing Deficiencies Exceeding Tolerances (Cont'd)

Manufacturer & Brand	Nitrogen Found		Available Phosphoric Acid	Water Soluble Potash
	Water	Total		
	Insoluble			
MASSACHUSETTS NURSERYMEN'S ASSOC. (Cont'd)				
M.N.A. Plant - O - Ganic W.I.N.				
4.0% 8-8-8	3.0 *	8.7	13.26 ***	6.3 **
M.N.A. Plant - O - Ganic W.I.N.				
4.0% 8-8-8	3.7 *	10.2	12.79 ***	13.9 ***
M.N.A. Professional Lawn Food W.I.N.				
6.0% 26-4-6	7.0	24.3 **	5.3	8.3
MITCH'S NURSERY HOME & GARDEN CENTER				
Mitch's Professional Lawn Fertilizer				
25-7-11		22.9 **	7.5	14.5
NUTRITE, INC.				
Nutrite Fertilizer 15-15-15		12.0 **	13.52 **	15.2
OLD FOX CHEMICAL COMPANY				
Old Fox Premier Garden Food W.I.N.				
1.2% 5-10-5	0.39	6.4	10.0	10.8 ***
Old Fox Fertilizer 5-10-10-1.2 ...		4.9	10.4	13.3 ***
Old Fox Fertilizer 5-10-10-1.2 ...		4.9	8.64 **	10.6
Old Fox Fertilizer 5-20-20		5.8	15.19 **	15.6 **
Old Fox Fertilizer 6-3-6		4.8 **	3.8	5.7
Old Fox Shrub & Tree Food 6-10-6 .		5.2 **	12.26	8.8
Old Fox Estate Green 10-6-4		11.3	10.0 ***	9.0 ***
Old Fox Turf Food W.I.N. 5.0% 10-6-4	4.3 *	9.2 **	5.6 *	4.5
Old Fox Fertilizer 10-10-10		11.7	9.7	19.5 ***
Old Fox Fertilizer 10-10-10		9.2 **	8.19 **	10.1
Old Fox Fertilizer 10-10-10		8.5 **	9.07 **	8.8 **
Old Fox Fertilizer 10-20-20		11.4	17.28 **	19.2 **
Old Fox Fertilizer 10-20-20		10.2	18.72 **	20.9
Old Fox Fertilizer 15-8-12		12.6 **	8.1	13.3
Old Fox Fertilizer 15-8-12		18.6 ***	10.93 ***	10.4 **
Old Fox Fertilizer 15-15-15		13.7 **	11.54 **	17.5
Old Fox Fertilizer 15-15-15		13.9 **	14.3 *	16.4
Old Fox Fertilizer Liquid 18-1-3 .		16.2 **	1.1	5.2
Old Fox Fertilizer 18-11-17		16.6 **	11.1	17.5
Old Fox Fertilizer 19-19-19		16.4 **	18.9	21.3
Old Fox Fertilizer 20-4-8		18.0 **	3.06 **	7.2 **
Old Fox Fertilizer 24-12-18		26.0	12.4	16.4 **
Old Fox Power Gran W/Sulfur Coated				
Urea W.I.N. 8.0% 30-3-10	7.9	27.2 **	3.5	13.7 ***
ROSS DANIELS, INC.				
Ross Gro-Stakes, Trees & Shrubs				
16-10-9		15.6 *	10.1	8.4 **
Ross Evergreen Gro-Stakes 10-10-10		12.1	11.7	8.7 **
O. M. SCOTT & SONS CO.				
Scotts Lawn Pro Fertilizer W.I.N.				
10.0% 32-4-4	14.8 ***	32.3	4.2	4.9

Mixtures Showing Deficiencies Exceeding Tolerances (Cont'd)

Manufacturer & Brand	Nitrogen Found		Available Phosphoric Acid	Water Soluble Potash
	Water	Total		
	Insoluble			
<u>SEACOAST LABORATORIES, INC.</u>				
Twin Light Pro Winter Turf Food 10-20-18		10.4	13.94 **	19.2
<u>STANFORD SEED CO.-CONSUMER PRODUCTS DIV.</u>				
Old English-Start-Tilizer-Fall-Tilizer 8-20-10		7.8	19.07 **	10.7
Old English-Start-Tilizer-Fall-Tilizer 8-20-10		8.6	21.2	9.1 **
Old English Weed Control W/Fertilizer 18-3-5		17.6	3.0	4.1 **
<u>STERN'S MIRACLE-GRO PRODUCTS, INC.</u>				
Stern's Miracle-Gro Plant Food 15-30-15		14.4 *	31.4	20.1 ***
Stern's Miracle-Gro for Roses 18-24-16		20.9	26.2	14.8 **
Stern's Miracid 30-10-10		28.7 **	15.3 ***	13.6 *
<u>VIGORO INDUSTRIES, INC.</u>				
Gro-Tone Plant Food W.I.N. 1.5% 5-10-5	4.1 *	6.5	9.10 **	5.5
All American Lawn & Garden 5-10-5. Gro-Tone Plant Food W.I.N. 1.5% 5-10-5		4.8	8.46 **	5.7
	2.5 *	6.1	11.3	11.8 ***
Gro-Tone Plant Food W.I.N. 1.5% 5-10-5	2.0	5.3	8.65 **	6.1
Suburban Brand Fertilizre 5-10-10. Blue Seal-Turf Green Plus Weed Killer W.I.N. 3.8% 10-3-6		5.4	9.4 *	8.7 **
	3.5 *	9.0 **	2.5 *	8.5 ***
Blue Seal-Turf Green Plus Crabgrass Preventer W.I.N. 3.8% 10-3-6 ...	3.5 *	9.6 *	2.72 *	4.8 **
All American Lawn & Garden 10-6-4. Lawn Fertilizer for All Turf Grasses W.I.N. 6.8% 30-4-6		7.9 **	7.2	4.1
	4.3 **	28.4 **	4.4	8.2
Gro-Tone Lawn Fertilizer W.I.N. 6.8% 30-4-6	4.7 **	27.7 **	5.5	6.3
Gro-Tone Crabgrass Preventer Plus Lawn Fertilizer W.I.N. 6.8% 30-4-6	5.4 **	29.6 *	5.2	5.6 *

* Within Tolerance

** Deficient

*** Excessive

Nitrogen, Phosphoric Acid, and Potash Products

<u>Manufacturer & Brand</u>	<u>Total Nitrogen</u>	<u>Available Phosphoric Acid</u>	<u>Water Soluble Potash</u>
<u>AGRICO CHEMICAL CO.</u>			
Agrico Urea Fertilizer 46-0-0	46.5	----	----
<u>AGRITURF, INC.</u>			
Agriturf Urea 46-0-0	46.6	----	----
<u>AGWAY, INC.</u>			
Agway Ammonium Nitrate 34-0-0	34.8	----	----
Agway Ammonium Nitrate 34-0-0	34.6	----	----
Agway Urea Fertilizer 46-0-0	46.3	----	----
Agway Urea Fertilizer 46-0-0	46.7	----	----
Agway Urea Fertilizer 46-0-0	46.6	----	----
Agway Urea Fertilizer 46-0-0	46.5	----	----
Agway Urea Fertilizer 46-0-0	46.6	----	----
Agway Urea Fertilizer 46-0-0	46.5	----	----
Agway Urea Fertilizer 46-0-0	46.8	----	----
Agway Triple Superphosphate 0-46-0 ...	44.17 **	----	----
Agway Triple Superphosphate 0-46-0 ...	45.4	----	----
Agway Triple Superphosphate 0-46-0 ...	46.1	----	----
Agway Triple Superphosphate 0-46-0 ...	39.64 **	----	----
Agway Phosphorus Supplement 0-44-0 ...	43.4 *	----	----
Agway Sul-Po-Mag 0-0-22	21.9	----	----
Agway Muriate of Potash 0-0-60.5	60.6	----	----
<u>C. F. INDUSTRIES, INC.</u>			
C. F. Ammonium Nitrate 34-0-0	34.8	----	----
<u>CENTRAL CHEMICAL CORP. N.E.</u>			
Farm Rite Urea 46-0-0	46.4	----	----
Central Chemical Potash 0-0-40	35.7 **	----	----
<u>CROP PRODUCTION SERVICES, INC.</u>			
Crop Production Services Urea 34-0-0 .	46.6	----	----
Crop Production Services Urea 46-0-0 .	46.7	----	----
<u>ESTECH, INC.</u>			
Gro-Tone Superphosphate 0-20-0	----	24.2	----
Gro-Tone Superphosphate 0-20-0	----	17.76 **	----
Gro-Tone Bone Meal 0-12-0	----	22.0	----
Gro-Tone Bone Meal 0-12-0	----	21.2	----
Gro-Tone Bone Meal 0-12-0	----	14.5	----
<u>W. R. GRACE & CO./AGRICULTURAL CHEMICAL GROUP</u>			
Grace-Nitrex Prilled Ammonium			
Nitrate 34-0-0	34.1	----	----
Grace-Nitrex Prilled Ammonium			
Nitrate 34-0-0	34.0	----	----

Nitrogen, Phosphoric Acid, and Potash Products (Cont'd)

<u>Manufacturer & Brand</u>	<u>Total Nitrogen</u>	<u>Available Phosphoric Acid</u>	<u>Water Soluble Potash</u>
<u>GREEN MTN. FERTILIZER CO.-DIV. L.D. OLIVER SEED</u>			
Green Mountain Fertilizer 46-0-0	46.3	----	----
Green Mountain Superphosphate 0-20-0.	----	20.4	----
<u>LEFFINGWELL UNIROYAL CHEMICAL</u>			
Nutra-Phos 24 0-24-0	----	22.16 **	----
<u>MASSACHUSETTS NURSERYMEN'S ASSOC.</u>			
M.N.A. Superphosphate 0-20-0	----	19.9	----
M.N.A. Superphosphate 0-20-0	----	19.2 *	----
M.N.A. Bone Meal 0-20-0	----	15.89 **	----
<u>NITROCHEM, INC.</u>			
Bull's Eye Ammonium Nitrate 34-0-0 ..	34.8	----	----
Bull's Eye Ammonium Nitrate 34-0-0 ..	35.0	----	----
Bull's Eye Ammonium Nitrate 34-0-0 ..	34.8	----	----
<u>WGM/HYDRO DIST. OF NORSE HYDRO A.S.</u>			
Viking Ship Brand Calcium Nitrate 15.5-0-0	15.0 *	----	----
Viking Ship Brand Calcium Nitrate 15.5-0-0	15.0 *	----	----
Viking Ship Brand Calcium Nitrate 15.5-0-0	15.0 *	----	----
Viking Ship Brand Calcium Nitrate 15.5-0-0	15.0 *	----	----
<u>OLD FOX CHEMICAL COMPANY</u>			
Old Fox Triple Superphosphate 0-46-0.	----	44.9 *	----
Old Fox Superphosphate 0-20-0	----	18.58 **	----
<u>VIGORO INDUSTRIES, INC.</u>			
Harvest King Fertilizer 0-20-0	----	10.5 **	----
Harvest King Fertilizer 0-20-0	----	12.41 **	----

* Within Tolerance

** Deficient

Manufacturer & Brand	Processed Animal Manures				
	Total Nitrogen	Total Phosphoric Acid	Water Soluble Potash	Moisture	Acid Insoluble Ash
<u>ANDERSON ORGANIC DIV. OF HYPONEX CORP.</u>					
Anderson Organic Composted Cow Manure 1-1-1	1.03	0.93	1.08	21.8	38.2 ***
<u>J. & L. ADIKES, INC.</u>					
Gro-well Dehydrated Cow Manure 3-2-2	1.52 **	2.39	1.32 **	34.0	18.6 *
<u>AGWAY, INC.</u>					
Agway Composted Cow Manure 1-1-1	0.62*	0.48 **	0.15 **	36.0	34.1 ***
Agway Composted Cow Manure 1-1-1	0.95	0.85	1.59	47.0	28.9 *
Agway Composted Cow Manure 1-1-1	1.09	0.99	1.33	42.0	17.3
<u>EARTHGRO, INC.</u>					
Country Pride Cow Manure 1-1-1	0.46 **	0.49 **	0.39 **	36.0	41.5 ***
Country Pride Cow Manure 1-1-1	0.45 **	0.47 **	0.30 **	38.0	37.8 ***
Country Pride Dehydrated Cow Manure 2-1-1	1.35 *	2.75	1.56	29.0	19.0
Country Pride Dehydrated Cow Manure 2-1-2	2.58	5.46 ***	3.0	----	5.5
Country Pride Dehydrated Cow Manure 2-1-1	1.31 *	2.96	1.56	21.5	32.0 ***
Country Pride For Fall Compost Plus 1-1-1 ...	0.83 *	1.18	0.78 *	35.0	33.0 ***
Country Pride Composted Cow Manure 1-1-1	0.97	0.93	0.74 *	26.0	----
Bovung Dehydrated Cow Manure 2-1-2	2.3	4.9	2.6	----	----
<u>FAFARD & FRERES LTD.</u>					
Composted Sheep Manure 1-1-1	0.93	0.97	1.9	60.0	6.0
<u>HYPONEX CORPORATION</u>					
Hyponex Composted Cow Manure 1-1-1	0.64 *	0.47 **	0.25 **	30.0	37.7 ***
Hyponex Composted Cow Manure 1-1-1	0.67 *	0.34 **	0.12 **	52.0 ***	19.9 *
Hyponex Cow Manure 1-1-1	1.14	1.04	1.31	43.0	18.1
Tilleez-Dehydrated Processed Cow Manure 2-1-2	1.24 *	0.65 *	1.36 *	38.0	25.4 *
Hyponex Cow Manure 1-1-1	0.99	1.03	1.18	38.0	20.6 *

Processed Animal Manures (Cont'd)

Manufacturer & Brand	Total Nitrogen	Total Phosphoric Acid	Water Soluble Potash	Moisture	Acid Insoluble Ash
<u>HYPONEX CORPORATION (Cont'd)</u>					
Fertilife-Composted					
Cow Manure 1-1-1	1.28	0.43 **	0.24 **	33.0	37.7 ***
Tilleez-Dehydrated					
Cow Manure 2-1-2	0.91 **	0.93	1.0 **	37.0	----
<u>ROBERT N. MCCLELLAN & SONS, INC.</u>					
Bovung Dehydrated Cow					
Manure 2-1-2	1.54 *	3.48	1.84	23.0	13.8
<u>PURE-TEX FERTILIZER CO.</u>					
Pure-Tex Cow Manure 2-1-2	2.5	1.70	2.40	----	22.1 *
Pure-Tex Dehydrated					
Cow Manure 2-1-2	2.60	2.00	2.40	----	20.7 *

* Within Tolerance

** Deficient

*** Excessive

Processed Sewage Sludge							
Manufacturer & Brand	Total Nitrogen		Available Phosphoric Acid		Water Insoluble Nitrogen		
	Guar- anteed	Found	Guar- anteed	Found	Guar- anteed	Found	
<u>MILWAUKEE METROPOLITAN SEWERAGE DIST.</u>							
Milorganite Activated Sewerage	6.0	6.7	2.0	2.0	5.5	6.6 *	
Milorganite Activated Sewerage	6.0	7.1	2.0	1.8	5.5	7.0 *	
Milorganite Activated Sewerage	6.0	6.6	2.0	1.7	5.5	6.4	
Milorganite Activated Sewerage	6.0	7.0	2.0	2.1	5.5	6.4	
Milorganite Activated Sewerage	6.0	7.1	2.0	2.1	5.5	6.8 *	
Milorganite Activated Sewerage	6.0	7.1	2.0	2.4	5.5	6.7 *	
<u>VIGORO INDUSTRIES</u>							
Gro-Tone Nitroganic	6.0	5.6 *	2.0	2.7	5.5	5.6	
<u>ESTECH, INC.</u>							
Gro-Tone Nitroganic	6.0	5.1 **	2.0	2.0			

* Within Tolerance

** Deficient

Agricultural Lime Products

Manufacturer & Brand	Neutralizing Value		Mechanical Analysis	
	Expressed in Terms		(Percent)	
	of Calcium Oxide		Finer Than	Retained On
	(Percent)		100-Mesh	20-Mesh
	Guaranteed	Found		
<u>ALLYNDALE CORPORATION</u>				
Allyndale Granular Lawn				
Lime	100.5-107.0	105.2	17.8	8.2
Allyndale Agricultural Lawn				
Lime	100.5-107.0	104.8	45.2	0.4
Allyndale Agricultural Lawn				
Lime	100.5-107.0	106.3	47.9	0.8
Allyndale Agricultural Lawn				
Lime	100.5-107.0	108.0	42.8	0.5
Allyndale High Magnesium				
Agricultural Lime	104.0	106.3	47.5	0.5
Allyndale High Magnesium				
Agricultural Lime	104.0	106.0	46.0	0.8
<u>AMERICAN PELLETIZING CORP.</u>				
Granulime Pelletized				
"Dolomitic" Limestone	98.0	106.0	----	----
<u>J. E. BAKER CO.</u>				
Sweet 'N Grow II Water				
Activated Limestone Nuggets	103.5	96.5 *	----	----
Sweet 'N Grow II Water				
Activated Limestone Nuggets	103.5	98.8 *	----	----
Sweet 'N Grow II Water				
Activated Limestone Nuggets	100.0	101.0	----	----
Sweet 'N Grow II Water				
Activated Limestone Nuggets	100.0	102.3	----	----
<u>BASINS, INC.</u>				
Lime-Rite Pelletized Dolomitic				
Lime	100.0	102.5	----	----
<u>CONKLIN LIMESTONE CO., INC.</u>				
Agricultural Ground Limestone	93.0	101.1	40.3	0.4
Standard Ground Limestone ...	89.0	78.0 *	55.4	0.0
Standard Ground Limestone ...	89.0	89.1	48.6	0.0
<u>A. H. HOFFMAN, INC.</u>				
Hoffman Limestone	115.0	108.9 *	98.8	0.0
<u>LEE LIME CORPORATION</u>				
Lee-Pure Dolomite Lawn &				
Garden Magnesium Limestone.	104.0	107.3	49.1	0.5
Lee White Granular Dolomite				
Limestone	104.0	105.0	53.1	0.7
Lee Lawn & Garden Magnesium				
Limestone	104.0	107.0	45.4	0.8

Agricultural Lime Products (Cont'd)

Manufacturer & Brand	Neutralizing Value		Mechanical Analysis	
	Expressed in Terms		(Percent)	
	of Calcium Oxide		Finer Than	Retained On
	(Percent)		100-Mesh	20-Mesh
	Guaranteed	Found		
LEE LIME CORPORATION (Cont'd)				
Lee White Granular Dolomite Limestone	104.0	107.0	39.2	1.1
Lee White Granular Dolomite Limestone	104.0	106.3	44.8	0.9
Lee Hi-Mag Fine Granular Limestone	104.0	106.5	40.4	0.6
Lee Spray Lime	147.5	146.3	99.0	0.0

* Within Tolerance

1988 FEED

ADM Milling Co., Tax Dept., P.O. Box 1470, Decatur, IL 62525

ADM Processing A Div. of Anchor Daniels Midland Co., Tax Dept. P.O. Box 1470 Decatur, IL 62525

A & R Pet Food, Co., Inc., 91 Holt St., Buffalo, NY 14206

A. H. Robbins Co., Inc., 1407 Cummings Drive, P.O. Box 26609, Richmond VA 23261-6609

Agrico Inc., P.O. Box 298, Lebanon, PA 17042

Agway Inc., Box 4751, Syracuse, NY 13221

Agway Inc., Box 4933, Syracuse, NY 13221- Country Foods

Alpha-Pet Inc., 4914 Dragett Ave, St. Louis, MO 63110

Allied Chemical, P.O. Box 1000R, Morristown, NJ 07960

Allied Signal, P.O. Box 1559, Hopewell, VA 23860

Almacs Inc., One Noyes St., East Providence, RI 02916

Alpo Petfoods Inc., P.O. Box 2187, Allentown, PA 18001

Alltech, Inc., 3031 Catnip Hill Pike Nicholasville, KY 40356

American Colloid Co., 1500 W. Shure Drive, Arlington Heights, IL 60004

American Crystal Sugar Co., 101 NO. Third St., Moorhead, MN 56560

American Cynamid Co., P.O. Box 400, Princeton, NJ 08540

American Equine Products, Inc., 372 Ely Avenue, S. Norwalk, CT 06854

American Feeds & Livestock Co. Inc., RR #6, Box #33, Long Grove, IL 60047

American Feeds & Livestock Co. Inc., Box 4180, Suite 101, Long Grove, IL 60047

Hoechst-Roussel Agri-Vet.Co., Route 202-206, North, Somerville, NJ 08876

American Superior Feeds, Inc. P.O. Box 2006, Ardmore, OK 73402

Amway Corp., 7575 East Fulton Road, Ada MI 49355

The Andersons, P.O. Box 119, Maumee, Ohio 43537

Anheuser-Bush Raw Material Dept., Busch Place, St. Louis, MO 63118

Anitox Corp., 1855 Anitox Dr., Buford, GA 30518

Archer-Daniels- Midland Co., P.O. Box 1470, Decatur, IL 62525

Arlington Grain Co., 5 Depot Ave., Cranston, Ri 02920
 Atlantic Feed Products Corp., 286 Secaucus, NJ 07094
 Audubon Park Co., 49 Main Street, Drawer W, Akron CO 80720
 Aquatronics, 1721 Ives Avenue, Oxnard, CA 93033
 BASF Wyandotte Cop., 100 Cherry Hill Rd., P.O. Box 181, Parsippany, NJ 07054
 Barber & Bennet Inc., Box 430, Port of Albany, Albany NY 12201
 Barzen International, P.O. Box 51, Stacey, MN 55079
 Baymag Plant, 200 1144-29 Ave., N.E., Calgary, Alberta T2E-7PL
 Bay-Mor Pet Feeds, 55 Mprjt Sillyman St., Cressona, PA 17929
 Bay State Milling Co., 707 Grain Exchange, Minneapolis, MN 55415
 Bayvet Div. Mileslabs, Inc., P.O. Box 390, Shawneemission, Kansas 66201
 Beacon Milling Co., Cayuga, NY 13034
 Beatrice Grocery Products, Inc., 110-21st Avenue South, P.O. Box 58, Nashville, TN 37202
 Beatrice Specialty Pet Products, P.O. Box 170, Nashville, TN 37202
 Bernardston Grain Mills, River Street, Bernardston, MA 01337
 Best Feeds & Farm Supplies, Rear of Union Ave., P.O. Box "J", Oakdale, PA 15071
 Bio Zyme Enterprises, Inc., 1231 Alabama St., Joseph, MO 64504
 Borden Inc., Pet-Agri. Division, RR #1, Box 127, Elgen, IL 60120
 Borden, Inc., Pet-Agri. Div., Pet/Vet Products, P.O. Box 396, Hampshire, IL 60140
 Blackstone Valley Vets Hospital, King Street, Uxbridge, MA 01569
 Blue Star Foods Inc., P.O. Box 798, Council Bluffs, Iowa 51502
 Bradford Associates, Inc. 191 Post Rd. West, Westport, CT 06880
 F.M. Brown's & Son, 205 Woodrow Avenue, Sinking Spring, PA 19608
 Brown Forman Distillers Corp., P.O. Box 1080, Louisville, KY 40201
 Bruckmans, 179 So. Broadway, Lawrence, MA 01843
 Bumble Bee Seafoods, 1995 Bayfront, P.O. Box X-1017, San Diego, CA 92113
 By Products, Inc., P.O. Box 7411, Wilmington, Del. 19803

Cadillac Pet Foods, 9130 Griffith Morgan Lane, pennsauken, JJ 08110
 Caldwell Supply Co., Inc., 1515 Parkway Ave., W. Trenton, NJ 08628
 Caldwell Supply Co., Inc., Valmont Industrial Pk., P.O. Box T Hazleton, PA 18201-0096
 Calo Pet Foods, Div. of Borden, Inc., P.O. Box 388, Allentown PA 18105
 Cambridge Products LTD. P.O. Box 1622 SSS. Springfield, MO 65805
 Cargill Inc., Processing Group, Box 9300, Minneapolis, MN 55440
 Cargill, Inc., Willow Grove, PA 19090
 Carnation Co., 5045 Wishire Blvd., Los Angeles, CA 90036
 Carter-Wallace, Inc., Half Acre Rd., P.O. Box 418, Cranbury, NJ 08512
 Central Conn. Co-Op Farmers Assoc., Box "V", Buckland Sta., 10 Apel Pl, Manchester
 C.H.B. Foods Inc., 772 Tuna St., Terminal Island, CA 90731
 Champion Pet Foods, Inc. 210-10 Carter Drive West Chester PA 19382
 Champion Valley Farms Inc., 6670 Low St., Bloomsburg, PA 17615
 Chenango Valley Pet Food, 10 So. Main St., Sherburne, NY 13460
 Cher-Ami Natural Pet Foods, Inc., Two East Ave., Larchmont, NY 10538
 Church & Dwight Co., 469 North Harrison St., Princeton, NJ 08540
 Clinton Corn Processing, Box 340, Clinton, IA 52732
 Commercial Rabbit Growers Assoc. of Mass., Gore RD., Upton, MA 01568
 Con-Agra Pet Foods Division, 6th & Elm ST., P.O. Box 938, Rolla, MO 65401
 Con-Agra Inc., Grain Milled Invoicing, One Central Park Plaza, Omaha, NE 68102
 Con-Agra Inc., Specialty Feed Products Co., 876 Grain Exchange Bldg., Minneapolis, MN 554
 Conklin Co., Inc., 4660 W. 77th St., Minneapolis, MN 55435
 Continental Grain Co., 277 Park Ave. New York, NY 10172
 Continental Grain Co., P.O. Box 459, Libertyville, IL 60048
 Corenco Corp., 525 Waburn St., Tewksbury, MA 01876
 Corn Products (CPC Int. Inc.) Int'l Plaza, Englewood Cliffs, NJ 07632
 Corn Sweeteners, Div. ADM Tax Dept., P.O. Box 1470, Decatur, IL 62525

Coskis Choice, Inc., P.O. Box 54, Bellows Falls, VT 05101

Cyanamical Agricultural de Puerto Rico Inc., c/o M. Martin, P.O. Box 400, Princeton, NJ 08

Cyto-Zyme Labs, 134 South 700 West, Salt Lake City, Utah 84104

D&D Suet Cake Co., Division of Health, 140 Mill St., Coopersville, MI 49404

DDI Pharmaceuticals, Inc., 518 Logue Avenue, Mountain View, CA 94043

Jim Dandy Co., Inc., 1200 Market St., N.E. P.O. Box 548, Decatur, AL 35602

Deep Run Packing Co. Inc., Deep Run Rd., 247, Dublin, PA 18917

Derby Feed, Co. Inc., 4-8 Caroline St., Derby, CT 06418

Diagnostic Data Inc., 518 Logue Ave., Mountain View, CA 94043

Diamond Shamrock Corp., 1100 Superior Ave., Cleveland, OH 44114

Diamond V. Mills, Inc., P.O. Box 4408, Cedar Rapids, IA 52407

Doane Products Co., Staff Supermarkets Assoc., P.O. Box 879, Joplin, MO 64802

Dog Gon' Good Pet Food Co., 80 Roger's St., Lowell, MA 01853

Domain Inc., 201 N. Knowles Ave., P.O. Box 248, New Richmond, WI 54017

Dow Chemical Co., (The) 2030 Dow Center, U.S. Tax Dept, Midland, MI 48640

Dow Chemical Co., (The) 1803 Bldg, Midland, MI 48674

Dow Chemical Co., (The) P.O. Box 1706 Midland, MI 48640

Early Times Distillery Co., P.O. Box 1105, Louisville, KY 40201

Eastman Gelatin Corp., 227 Washington St., Peabody, MA 01960

Eastman Chemicals Div., P.O. Box 511, Kingsport, TN 37662

Eight-In-One Pet Food Prod. Inc., 100 Emjay Blvd., Brentwood, NY 11717

Elanco Products Co., 740 S. Alamba St., Indianapolis, IN 46285

Essential Minerals Inc., P.O. Box 619, Franklin, MI 48025

Evanger's Dog & Cat Food Co., Inc., 221 Wheeling Rd., Wheeling, IL 60090

Evans Milling Co., Inc., 1730 W. Michigan St., Indianapolis, IN 46222

John Ewing Co., 401 No. First St., LaSalle, CO 80645

FMC Industrial Chemical Group Corporation, 2000 Market St., Philadelphia, PA 191

Farmer City Grain Co., P.O. Box 189, 201 W. North St., farmer City, IL 61842

Federal Foods, Inc., P.O. Box 365, Mequon, WI 53092

Feed Flavors, 265 Alice Street, Wheeling, IL 60090

Fermented Products Inc., 905 So. Carolina Ave., Manson City, IA 50401

Fermented Products Inc., P.O. Box 1483, Mason City, IA 50401

Fermenta Animal Health Co., P.O. Box 901350, Kansas City, MO 64190-1350

First National Supermarkets, Inc., 424 River Front Drive, Mankato, MN 56002

Food Center 312 Boston Road, N. Billerica, MA 01862

Fort Dodge Laboratories, Ford Dodge, Iowa 50501

Four Paws Product, LTD., 50 Wireless Blvd., Hauppauge New York 11788

R.T. French Co., One Mustard St., P.O. Box 23450, Rochester, NY 14692

General Mills Corp., Pkg Conven. Div., 275 Cliff St., Battles Creek, MI 49016

General Mills Inc., P.O. Box 15003, Minneapolis, MN 55415

Roy Goff & Co. Inc., P.O. Box 6248, Bridgeport, CT 06606

Grain Processing Corp., 1600 Oregon St., Muscatine, IA 52761

Grand Union Co., Elmwood Park, New Jersey 07407

Grand Union Co., P.O. Box 8500, Mankato, MN 56002-8500

Great A&P Tea Co. Inc., c/o Perk Foods Co., 772 Tuna St., Terminal Island, Ca 9073

Rolf C. Hagen, USA Corp., 50 Hampden Rd., Mansfield, MA 02048

HAP-EE Pet Food, 150 Reservoir Rd., Wollaston, MA 02170

Hartz Mountain Pet Foods, 700 South Forth St., Harrison, NJ 07029

Harvest States Cooperative, P.O. Box 43594, ST., Paul, MN 55164

Heger Co., 2562 7th Ave. E., No. St. Paul, MN 55109

Heinold Feeds Inc., P.O. Box 377, 207 E. Mentor St., Kouts, IN 46347

Hikari Sales U.S.A., Inc., 1655 W. Winton Avenue, Hayward, LA 94545

Hi-Life Packing Co., P.O. Box 218, Rte. M-40, Hamilton, MI 49419

Hi-Life Packing Co., Box 1167, Elmhurst, IL 60126

Hill's Pet products, P.O. Box 148, Topeka, KS 66601

. Hilton Seafoods Co., Inc., 1437 Elliott Avenue, Seattle, WA 981199
 Hoffman La Tiche Inc., 340 Kingsland St., Bldg. 706, Nutley NJ 07110
 Holland Pet Products P.O. Box 8064 Kentwood, MI 49508
 Hubinger One Progress St. Keokuk, IO 52632
 Hubbard Milling Co., 424 North Front St., Mankato, MN 56001
 IBA Inc., Animal Health Div., 27 Providence Rd., Millbury, MA 01527
 IAMS Company, P.O. Box 862, Lewisburg, OH 45338
 Illinois Cereal Mill's, P.O. Box 550, Paris, IL 61944
 Impro Products Inc., 3 Allamakee St., Waukon, IA 52172
 International Bakerage, 3300 Northeast Expressway, Suite 1-M, Atlanta, GA 30341
 International Minerals & Chemical Corp., 1331 So. 1st, P.O. Box 207, Terre Haute, IN 47808
 International Multifoods, Box 2942, Multifoods Tower, Minneapolis, MN 55402
 International Salt Co., Clarks Summit, PA 18411
 International Stock Food Corp., P.O. Box 29, 533 Broad St., Waverly, NY 14892
 I.S. Joseph Co., Inc., 777 Grain Exchange Bldg., Minneapolis, MN 55415
 Jennison, W.J., Co., 424 North Front Street, Mankato, MN 56001
 Jespy Inc., 200 E. Rosedale Ave., W. Chester, PA 19382
 Howard Johnsons Enterprises, P.O. Box 67, Viroqua, WI 54665
 Joys Import and Export, P.O. Box 1055, Boston, MA 02205
 K & L Feed Mill Corp., Box 52, Route 32, Franklin, Ct 06254
 Kaiser Chemicals, 30100 Chagrin Blvd., Cleveland, Ohio 44124
 Kal Kan Foods Inc., 386 E. 44th St., Vernon, CA 90058
 Kaytee Products Inc., 242 E. Grand St. Chilton, WI 53014
 Kellogg Inc., 322 E. Florida St., Milwaukee, WI 53201
 Kelly Foods Corporation, Route 3, Box 28, Berlin, MD 21811
 Kerr-McGee Chem. Corporation, P.O. Box 25861, Oklahoma City, OK 73125
 King Neptune Sales Corp. 12 Water St., Suite 401 White Plains, NY 10601
 Kitty Food Corp. (Hilton Seafood) 1437 Elliot Ave., W. Seattle, WA 98119

Lacrosse Milling Co., Div. of Tereson Co., P.O. Box 86, Cochrane, WI 54622
Lambert Kay, P.O. Box 418 Half Acre Rd., Cranbury, NJ 08512
Land O'Lakes Inc., Agricultural Services 2827 8th Ave. So., Fort Dodge, IO 50501
Lakes Minnesota Macaws, Inc., 3725 Denmark Court West, St. Paul, MN 55123
Landon Company Inc., Box 457 Delavan, WI 53115
Lauhoff Grain Co., P.O. Box 571, Danville, IL 61832
Libner Corporation 25 Commerce St., Norwalk, CT 06852
Lipman Marine Products Inc., P.O. Box 779, Gloucester, MA 01930
Liberty Mills, Inc., Liberty, IN 47353
Liv-A-Snaps, 4251 Fernwood Street, Arden Hills, St Paul, MN 55112
Edward Lowe Industries, P.O. Box 7, Santa Rosa, CA 95402
Magic Products, Inc., P.O. Box 38, Amherst Junction, WI 54407
Maine Manna Inc., Gorham, ME 04038
Manna Pro Corp., P.O. Box 92959, World Ways Station, Los Angeles, CA 90009
Maple Leaf Mills Co., Inc. Export Flour Div., 43 Junction Rd., Toronto, Ontario Canada
Mardel Laboratories, Inc., 1958 Brandon Court, Glendale Heights, IL 60139
Marlboro Products c/o Peck Foods, 772 Tuns St., Terminal Island, CA 90731
Martin Maritta Basic Products, Executive Plaza, Hunt Vally, MD 21030
Martins Feed Mills Inc., Box 46 New Paris, ID 46553
Marschall Products, Miles Labs, P.O. Box 592 Madison, WI 53701
Mass Canning Corp. Rte. 44, Harding St., Lakeville, MA 02346
Menu-Foods, LTD., 8 Falconer Drive, Streetsville, Ontrio, L5M2C1 Canada
Merck & Co. Inc., P.O. Box 2000 Attn: R.R. Buck Rahway, NJ 07065-0914
Merricks, P.O. Box 99, Union Center, WI 53962
Metaframe Cop., 231 40th St. Irvington, NJ 07111
Milk Specialties Co., P.O. Box 278 WAter & Illionois Sts. Dundee, IL 60118
Miner-ol Co. Inc., So. Water St., Warsaw, IL 62379

Morton Salt Co., 110 N. Wacker Dr., Chicago, IL 60606
 Monitor Sugar, Inc., 2600 S. Euclid, Bay City, MI 48706
 Monsanto Agri-Co., 800 N. Lingerg Boulevard, St. Louis, MO 63137
 Moyer & Son Inc., 113 E. Reliance Rd., Box 198, Souderton, PA 18964
 Nabisco Brands Inc., East Hanover, NJ 07936
 Nabisco Inc., Toledo Flour Mill, 2221 Front St., Toledo, OH 43605
 Naremco Inc., Box 1572 SSS, Springfield, MO 65805
 National Distillers Products Co., 120 Section Rd., Cincinnati, OH 45216
 National Feeds of New England, P.O. Box 791 Merrimack, NH 03054
 National Oats Co., 1515 H Ave. N.E. Cedar Rapids, IA 52402
 National Starch & Chem. Corp., 1515 So. Dover St., Indianapolis, IN 46221
 National Vitamin Products Co., 3401 Hiawatha Avenue, S. Minneapolis, MN 55406
 Natural Life Pet Products, Inc., P.O. Box 476, Maple Plain, MN 55359
 New Energy Co. of Indiana, 3201 W. Clavert St., P.O. Box 2289, So. Bend, IN 46680-2289
 New England Serum Co., 239 Hewburyport Tpke, (Rt.1), Topsfield, MA 01983
 Nor-Am chemical Co., 3509 Silverside Rd., P.O. Box 7495, Wilmington, Del. 19803
 Northrop King Co., Linda Lipsey, P.O. Box 959, Minneapolis, MN 55440
 Nutrina Feed Div., Cargill Inc., P.O. Box 9300 Dept. 14, Minneapolis, Minn. 55440
 Nutrius Inc., Two Brecksville Commons, 8221 Brecksville Rd., Brecksville, Ohio 44141
 Nutro Products, Inc., 445 Wilson Way, City of Industry, CA 91744
 Occidental Chemical Co., Feed Prod. Div., 1122 East Highway 131, Jeffersonville, IN 47130
 P. B. Ohrstrom & Sons Inc., P.O. Box 964, Arlington Heights, IL 60006
 Ohio Blenders, Inc., 2404 Summit Street, Toledo, OH 43611
 Ohio Pet Foods, Inc., 38251 Industrial Park Road, Box 285, Lisbon, Ohio 44432
 Old Fox Chemical Inc., 94 Dexter Rd., E. Providence, RI 02914
 Old Mother Hubbard Dog Food Co. Inc., 80 Rogers St., P.O. Box 1411, Lowell, MA 01853
 OMYA, Inc., P.O. Box 3, Florence, VT 05744
 Opus, Inc., 24 William Way, P.O. Box 525, Bellingham, MA 02019

Oyster Shell Products, P.O. Box 1225, Mobile, AL 36601

Pacific Molasses Co., 333 Market St., Suite 1000, San Francisco, CA 94105

Paterson Tallow Co. Inc., P.O. Box 287 Jersey City, NJ 07303

Penn Plax, Inc., 720 Stewart Avenue, Garden City, New York 11530

Pennwoods Equine Products, Inc., P.O. Box 385, Centerhall, PA 16828

Pet Ag-Inc., P.O. Box 396, Hampshire, IL 60140

Perk Foods Co., 772 Tuna St., Terminal Island, CA 90731

Phillips Petroleum Co., P.O. Box 13A4, Bottlesville, OK 74004

Piasa Pet Products, Inc., P.O. Box 938, Tolla, MO 65401

Pillsbury Co., Pillsbury Center 3526, Minneapolis, MN 55402

Pioneer Hi-Bred International Inc., 1206 Mulberry St., Des Moines, IA 50308

Potman-Moore, Inc., 421 East Hawley Street, Mundelein, IL 60060

Pro-Pet, 218 E. Main St., Newark, DE 19711

Preston Kitchens, 1 Choptank Rd., P.O. Box 70 Preston, MD 21655

Purina Mills, Inc., 8355 Eighth St., St. Louis, MO 63102

Purina Mills, Inc., 800 Chouteau Ave., St. Louis, MO 63164

Quaker Oats Co., (The) 345 Merchandise Mart Plaza, Chicago, IL 60654

Ralston Purina Co., checkerboard Sq., St., Louis, MO 63164

Redi Industries Corp., 301 Peninsula Blvd., Hempstead, NY 11550

Reed Liqnin, Inc., 81 Holly Hill Lane, Greenwich, CT 06830

Reward Co. Inc., P.O. Box 12548, El Paso, TX 79912

A. H. Robbins Co. Inc., 1405 Cummings Dr., Richmond, VA 23220

Rockford Farms, P.O. Box 4000, Chicago, IL 60654

Roto Salt Co., Inc., 118 Monell St., Box 421, Penntan, New York 14527

R&R Wirtes Farms, North Main St., Lanesboro, MA 01237

San Francisco Bay Brand Co., 8239 Enterprise Dr., Newark, CA 94560

SDS Biotech Corp., 7528 Auburn Rd., P.O. Box 348, Painesville, OH 44077

Seaboard Seed Co., P.O. Box 117, Bristol, IL 60512

Seapro, Inc., P.O. Box 669, Rockland, Maine 04841

Joseph E. Seagram & Sons Inc., 508 West High St., Lawrenceburg, IN 47025

Schenley Distillers, Inc., 12770 Merit Dr., Suite 600, Dallas, TX 75251

Scottie Pet Food Co., 80 Rogers St., Lowell, MA 01853

Shafer Seed Co., Oakes, No. Dakota 58474

Shanwick International Corp., P.O. Box 6313, Scottsdale, AZ 85261

Shawvan International Ltd., 310 Huehl Rd., Northbrook, IL 60062

J.R. Short Milling Co., P.O. Box 866, Kankakee, IL 60901

Silopress Manufacturing Co., 1915 Floyd Blvd., Sioux City, Iowa 51102

Slentz-McAllaster Inc., P.O. Box 38 Lewis, KS 67552

Sohio Chemical Co., P.O. Box 628 Lima, OH 45802

Solid Gold Holistic Animal Equine Nutrition Ctr., 1483 N. Cuyamaca, Ellajon, CA

Source Inc. 101 Fowler Rd., No. Branford, CT 06471

South Point Ethanal, Old Rte. 52, P.O. Box 1004, South Point, OH 45680

Southern Cotton Oil Co., P.O. Box 1470 Decatur, IL 62525

Southern of Darlington Co., 383 Washington St., P.O. Box 70, Darlington, SC 29532

Southern of Rocky Mount Inc., 600 Wilkenston St., P.O. Box 109, Rocky Mount, NC 27801

Specialty Pet Products, P.O. Box 58, Nashville, IN 37202

Springfield Sugar & NE Grocers, P.O. Box 638 Northboro, MA 02138

John P. Spuria & Sons, 1 Gardner Rd., So. Ashburnham, MA 01466

A.E. Staley Mfg. Co., 2200 E. Eldorado St., Decatu, IL 62525

Standard Milling Co., 1009 Central St., Kansas City, MO 64105

Standard Seed Co., P.O. Box 366 560 Fulton St., Buffalo, NY 14240

Star-Kist Foods Inc., 582 Tuna St., Terminal Island, CA 90731

Star Market Co., 625 Mt. Auburn St., Box 293 Cambridge, MA 02138

Stinson Canning Co., 66 Bowery Street, Bath, Maine 04530

St. Jon Laboratories, Inc., 1656 W. 240th Street, Harbor City, CA 90710

Stop & Shop Supermarkets, 772 Tuna St., Terminal Island, CA 90731
Strongheart Products Co., P.O. Box 2009 Kansas City, Kansas 66110
Sunflower Inc., P.O. Box 169, Grandin, ND 58038
Sunshine Feed Mills, P.O. Box Drawer 676 "S" Red Bay, AL 35582
Superbowl Pet Foods Inc., 57-18 48th St., P.O. Box 86 Maspeth, NY 11378
Superior Brands, Inc., 122 Quincy Shore Drive, Quincy, MA 02272
Sure Crop Intenational, P.O. Box 179, New City, NY 10956
Sweet Life Prod. c/o N.E. Grocer Supply, 175 Bearfoot Rd., Northboro, MA 01532
Tenneco Minerals Co., P.O. Box 1167, Green River, New York 82935
T.C. Products Co., P.O. Box 8603, Madison, WI 53708
Tomlyn Products of I.G.I., Inc., 2285 E. Landis Avenue, Vineland, NJ 08360
Tetra Sales (USA) Div. of Warner Lambert Co., 201 Tabor Rd., Morris Plains, NJ 07950
Texas Gulf Chemicals Co., P.O. Box 171, Weeping Water, NE 68463
Topco Assoc., Inc., 7711 Gross Point Road, Skokie, IL 60077
Tri-Mutual Inc., 8500 Pillsbury Ave. S. Minneapolis, MN 55420
Triumph Pet Industries P.O. Box 100, Hillburn, NY 10931
Truffa Seed Co., Inc., 31 Industrial Drive, Middletown, New York 10940
United Cooperative Farmers Inc., 339 Broad St., Fitchburg, MA 01420
Up-John Co., 96-91-190-43, Kalamazoo, MI 49001
Ventura Grain Co., 148 Longmeadow Rd. Taunton, MA 02780
Veterinary Nutritional Assoc., 229 Wall St., Huntington, NY 11743
Vigortone AC Products Div. Beatrice Foods, P.O. Box 1230 Cedar Rapids IA 52406
Vital Nutrition Products, Inc., 25 Laurel Rd. Rockey Hill, CT 06067
WGM-Hydro 270 Lawrence Ave., Aouth San Francisco, CA 94080
Wagging Tail Ltd., 206 Garden Street, Hoboken, New Jersey 07030
Walter Farms, Inc., P.O. Box 132, Forest Lake, MN 55025
Wakefern Food Corp. 600 York St., Elizabeth, NJ 07028
Wardley Products Co. Inc., One Aquarium Dr., P.O. Box 2515, Secaucus, NJ 07094

Wayne Feed Div., Continental Grain, P.O. Box 459, Libertyville, IL 60048

H.K. Webster Co., Inc., P.O. Box 8, Lawrence, MA 01842

Wells Pet Food Corp., 617 South D St., Monmouth, IL 61462

Rose-Wells P.O. Box 426, Mequon, WI 53092

Wilson's Corn Products Inc., Rochester, IN 46975

Wisconsin Brand, Inc., Rte. 2, Box 214-B, Iola, WI 54945

Martha White Foods, Inc., P.O. Box 58, Nashville, TN 37202

Wysong Medical Corp., 1880 North Eastman, Midland, MI 48640

Young's Inc., P.O. Box 71, Roaring Spring, PA 16673

Commercial Fertilizer Registrations
1988

ASB Greenworld Inc., 82 Cherrywood Dr. Somerset, NJ 08873
Aglukon Agri-Products, 50 North Harrison Ave., Congers, NY 10920
Agway, Inc., P.O. Box 4741, Syracuse, NY 13221
Agway, Inc., Distribution Services, P.O. Box 4746, Syracuse, NY 13221
Agway, Inc., Box 4933, Syracuse, NY 13221
Agriturf, Inc. 59 Dwight St. Hatfield, MA 01038
Alpha Sales Co., 388 Evans St., Williamsville, NY 14221
Allied Signal Inc., P.O. Box 1057R, Morristown, NJ 07960
Allied Signal Inc., P.O. Box 1559, Hopewell, VA 23860
Blue Circle Atlantic Inc., P.O. Box 3, Ravena, NY 12143
Central N.E. Chemical Corp., P.O. Box 918, Hagarstown, MD 21741
CF Industries, Inc., Salem Lake Drive, Long Grove, IL 60047
Chevron Chemical Co., 15049 San Pablo, Ave. Richmond, CA 94804
Chilean Nitrate Sales Corp., 109 East Main St., Suite 500, Norfolk, VA 23510
Continental Shelf, Pleasant Dr., Lockmere, NH 03252
Crop Productions Services Inc., Box 7013, Wilmington, DE 19803
C.S.I. Chemical Corp., P.O. Box 39, Boundurant, IA 50035
Cytozyme Laboratories, Inc., 134 South 700 West, Salt Lake City, Utah 84104
Emerald Green, Inc. 1149-D St. Rt. 131 Milford, Ohio 45150
Kaiser/Estech Inc., Div. of Vigoro, P.O. Box 233, Portland, CT 06480
Farm Bureau, 115 Washington Ave., P.O. Box 227, Soundertown, PA 18964
Gardinier Inc., P.O. Box 3269, Tampa, FL 33601
Golden Harvests Agric. Services, Walnut Street, St. Albans, VT 05478
Green Mountain Fert., P.O. Box 156, Milton, VT 05468
Hi Score Plant Food Co. Inc., P.O. Box 7775 3175 Oregon Pike, Lancaster, PA 17604
IMC Fertilizer Co., 421 Hawley St., Mundelein, IL 60060
.
J.I. Holcomb Mfg. Co., 4415 Euclid Ave., Cleveland, OH 44103
Lebanon Chemical Corp., P.O. Box 180, Lebanon, PA 17042
Leffingwell Chemical Co., 111 So. Berry St., Brea, CA 92621
John D. Lyon Inc., 143 Alewife Brook Parkway, Cambridge, MA 02140
Na-Churs Plant Food, 421 Leader St., Marion, OH 43302
Occidental Chem. Agri. Products, 5404 Cypress Center Dr., Suite 210, Tampa, FL 33609
Old Fox Chemical Co., 94 Dexter Road, East Providence, R.I. 02914
Sober Chemical Industries, P.O. Box 650, 515 Brown Street, Holdredge, NE 68949
Sun Phosphate Co., P.O. Box 369, Dunnellon, FL 32630
Texknit Service and Supply DBA The Continental Shelf Pleasant Drive Lochmere, NH 03252
John Wojtowicz, Inc., 56 Plant Road, Clifton Park, N.Y. 12065
Arcadian Corporation, P.O. Box 265, Parsippany, N.J. 07054

1988 SPECIALTY FERTILIZER

ASB Greenworld Inc., 82 Cherrywood Drive, Somerset, NJ 08873
ASB (Canada) LTD, Pointe Sapin, Kent CO., N.B., Canada E0A 2A0
Ancient Age Distilling Co., Leestown Road, Frankfort, KY 40601
Agway Inc., Box 4933 Syracuse, N.Y. 13221
Agway, Inc., Crop Services, P.O. Box 4741, Syracuse, NY 13221
Agway, Inc., Distribution Services, P.O. Box 4746, Syracuse, NY 13221
Agrico Chemical Co., P.O. Box 3166, Tulsa, OK 74101
Agri Grains Inc. Park West Rd. Red Oak, IA 51566
Agri Turf Inc., 59 Dwight St. Hatfield, MA 01038
Agri Turf, Inc., For Derby Feed Co., 59 Dwight St., Hatfield, MA 01038
Agro-Chem. Inc., 11150 W. Addison St., Franklin Park, IL 60131
Agro-K Corporation 36-37th Ave. NE, Minneapolis, MN 55421
Alaska Fish Fertilizer Co., P.O. Box 757, Renton, WA 98057
AllJack & Co., 423 Amelia St., Plymouth, MI, 48170
Allens Seed Store Inc. 2151 Soup Country Trail Slocum, RI, 02877
Allied Signal Inc. Chemicals Co., P.O. Box 1057R, Morristown, N.J. 07960
Allied Signal Inc. Plastics, P.O. Box 1559, Hopewell, VA 23860
Amax Chemical Corp., 402 So. Kentucky Ave, Suite 600, Lakeland, FL 33801
Amcorn/Amturf, 850 N. Old U.S. 23, Brighton, MI 48116
American Cyanamid Co., P.O. Box 400, Princeton, N.J. 08540
American Cyanamid Co., Plant Food Div., One Cyanamid Plaza, Wayne, NJ 07470
American Colloid Co., One No. Arlington, 1500 W. Shure Dr., Arlington Hgts., IL
American Protein Corporation, P.O. Box 158, Lytton, IA 50561
Amway Corp., 7575 East Fulton Rd., Ada, MI 49355
Anderson's, The, P.O. Box 119, Maumee, OH 43537
Aquarium Pharmaceuticals Inc., 50 E. Hamilton Street Ohaifont, PA 18914
Arcadian Corp. P.O. Box 265. Parsippany, New Jersey 07054
Armatron International (Flowtron) 2 Main St., Melrose, MA 02176
Atlas Fish Fertilizer Co., 865 Lind Ave S.W., Renton, WA. 98055

J.T. Baker Chemical, 222 Red School Lane, Phillipsburg, N.J. 08865

F.A. Bartlett Tree Experts Co., P.O. Box 3067, Ridgeway Sta., Stamford, CT 06905

Bendien B.V., Thierensweg 10, 1411 Ex Naarden, Netherlands

Bio-Gen Int'l Inc., 2946 East 39th St., Rapid City, SD 57701

Bio-Turf, Inc., P.O. Box 6507, Hilton Head Island, S.C. 29938

Black Leaf Products Co., 4309 So. MorgatSt. Chicago, IL 60609

Broadleaf Industries Inc., 6150 Lusk Blvd. Ste. B103, San Diego, CA 92121

W. Atlee Burpee Company, 723 Wallace Drive Warminster, PA 18974

C.F. Industries, Salem Lake Drive, Long Grove, IL 60047

CIL Inc., P.O. Box 1900, Courtright, Ontairo L8G 321

Caldwell & Jones, Inc., P.O. Box G Buckland Station, CT 06040

Celex Corporation 443 Amelia, Plymouth, MI 48170

Central N.E. Chemical, P.O. Box 918, Hagerstown, MD 21741

Chemlawn Corp., P.O. Box 397, Wickford, R.I. 02852

Chevron Chemical Co., P.O. Box 7144 SanFrancisco, CA 94120-7144

Chevron Chemical Co., 15049 San Pablo Ave., Richmond, California 94804-0010

CIBA-GEIGY Corp., Agri. Div., P.O. Box 11422, Greensboro, N.C. 27419

Clarel Laboratories, Inc., 513 Grove St., Deerfield, IL 60015

Clinton Nursery Products, Inc., P.O. Box 932, 114 W. Main St., Clinton, CT 06413

Conrad Fafard, Inc., P.O. Box 3190, Springfield, Ma. 01101

Cotter & Co., True Value Hardware. 2740 Clybourn Ave., Chicago, IL 60614

Crawford Garden Supplies, 589 Atwells Ave, Providence, R.I. 02909

Creative Sales, Inc., 222 Park Avenue, Fremont, NE 68025

Crop Production Services, Box 7013, Wilmington, DE 19803 Laurie Roop

Cytozyme Lab Inc., 134 South 700 West, Salt Lake City, Utah 84104

D.D.I. Pharmaceuticals, Inc. 518 Logue Ave Mountain View, CA 94043

D.H. & R. Co., Inc. P.O. Box 333, LaPorte, IN 46350

Davey Tree Expert Co., The, 117 South Water St. Kent, OH 44240

Dexol Industries, 1450 W. 228th St., Torrance, CA 90501

Domestic Fertilizer, 1750 17th St., Paris, KY 40361

Dow Chemical Co., US Area Tax, 2030 Dow Ctr, Midland, MI 48640

Dragon Chemical Corp., 7033 Walrond Dr. NW, P.O. Box 7311, Roanoke, VA 24019

Eagle Picher Ind., P.O. Box 550, Joplin, MO 64802
 Earthgro, Inc., Rte 207, P.O. Box 143, Lebanon, CT 06249
 Emerald Green, Inc., 1149 D St. RT. 131 P.O. Box G, Milford, Ohio 45150
 Emerald Isle LTD, 2153 Newport Rd., Arbor, MI 48103
 Epsoma Co., The, 6 Espoma Rd., Millville, N.J. 08332
 Kaiser/Estech Inc., Div. of Vigoro, P.O. Box 233, Portland, CT. 06480
 Farm Bureau, 115 Washington Ave, P.O. Box 227, Souderton, PA 18964
 Fertrell Co., P.O. Box 265, Bainbridge, PA 17502
 Faesy & Besthoff Inc., 143 River Rd., Edgewater, N.J. 07020
 Fer-Mel Corp., 304 Main St., Wethersfield, CT 06109
 Gardena, Inc., 6031 Culligan Way, Minnetonka, MN 55345
 Gardinier Inc., P.O. Box 3269, Tampa, FL 33601
 G & D Sales Co., Inc. 6 Meadow Lane, Freeport L.I. N.Y. 11520
 Glorion Corp., 366 No. Broadway, Jericho, NY 11753
 Goldmar Corp., P.O. 27074, 180 W. Ostend St., Baltimore, MD 21230
 Golden Harvest Agric. Serv., Walnut St., St. Albans, VT 05478
 W.R. Grace & Co., P.O. Box 227 Memphis, TN 38101
 Grass Roots Natures Way, Inc, 380 So. Franklin St. Hampstead, NY 11550
 Green Mountain Fertilizer Inc., P.O. Box 156, Sunset Ave., Milton, VT 05468
 Green Charger Fertilizer Co. P.O. Box 26234 Richmond, VA 23260
 Grow Consumer Products, Inc., 1354 Old Post Rd., Havre de Grace, MD 21078
 Chas. C. Hart Seed Co., P.O. Box 169, Wethersfield, CT 06109
 Heartland Lysine, Inc. 8430 W. Bryn Main Suite 650, Chicago, IL 60631
 Hi-Score Plant Food Co., Inc., P.O. Box 7775, Lancaster, PA 17604
 A.H. Hoffman, Inc., Landisvillie, PA 17538
 Holland Bulb Prod., P.O. Box 540, Sylacaduga, AL 35150
 Hyponex Co. Inc., P.O. Box 4300, Copley, Ohio 44321
 Hy-Trous Crop, 3 Green St., Woburn, MA 01801

IMC Fertilizer Co., 421 Hawley Street, Mundelein, IL 60060
International Spike Inc., 817 E. Third St., Lexington, KY 40592
Tom Irwin Inc. 11 B A St. Burlington MA 01803
Howard Johnson's Enterprises, 161 W. Wisconsin Ave. Milwaukee WI 53203
Jiffy Products of American Inc. 1400 Harvester Rd. P.O. Box 338 W. Chicago, IL 60185
Jonathan Green, Inc., P.O. Box 326, Farmingdale, NJ 07727
Kaiser/Estech, 2007 West Highway 50, Box 4139, Fairview Heights, IL 62208-2928
Kenco Chemical & Mfg. Corp., P.O. Box 6246, Jacksonville, FL 32236
Kerr-McGee Chemical Corp., Kerr-McGee Center, 135/1126, Oklahoma, OK 73125
K-Mart Corp. c/o Rockwell Chemical Co., P.O. Box 809, W. Caldwell, N.J. 07006
K-Mart Corp., 3100 W. Big Beaver, Troy, MI 48084
Knox Fertilizer Co., Inc. West Culver Rd., P O Box 248, Knox, IN 46534
Knox Gelatin Inc., 800 Sylvan Ave., Englewood Cliffs, N.J. 07632
Koos Inc., 4500 13th Court, Kenosha, WI 53140
L & G Agri. Tech Inc., 5 Militia Road, R.D. 1, Whitehouse Station, NJ 08889
Lakeshore Equipment & Supply Co., P.O. Box 16915, 2005 Lake Rd, Rocky River OH 44116
Lebanon Chemical Corp., P.O. Box 180, Lebanon, PA 17042
Leffingwell, 111 So. Berry St., P.O. Box 1880, Brea, CA 92621
Lesco Inc. 20005 Lake Rd. Rocky River, OHio 44116
Lofts Pedigreed Seed Inc., Chimney Brook Rd., Bound Brook, N.J. 08805
Loncala Phosphate Co., P.O. Box 766, High Springs, Fl 32643
John D. Lyon Inc., 143 Alewife Brook Parkway, Cambridge, Ma 02140
J & L Adikes, Inc. 182-12 93rd. Ave. Jamaica, NY 11423
J.J. Mauget Co., 2810 No. Figueroa St. Los Angeles, CA 90065
Mass Nursery Men's Assoc., 715 Boylston St. Boston, Ma 02116
Martin Marletta Chemicals, Executive Plaza II. Hunt Valley, MD 21030

Melnor Industries, Inc., 1 Carol Place, Moonachie, NJ 07074

Miller Chemical & Fertilizer Corp., P.O. Box 333, Radio Road, Hanover, PA 17331

Milwaukee Metropolitan Sewerage Commission, 735 No. Water St., Milwaukee, WI 53202

Mother Nature's, 10 Goodwell Trail, Box 1055, Avon, CT 06001

NCF Co., P.O. Box 788, East Route 10, Lincoln, IL 62656

Na-Churs Plant Food Co., 421 Leader St., Marion, OH 43302

Nassau Garden, Inc., 366 No. Broadway, Jericho, N.Y. 11753

National Products Division, Inc., P.O. Box 1701, Laporte, Indiana 46350

Neogen Industries, Inc. P.O. Box 8020, Erie, PA 16505

New England Lawn Services, Inc., P.O. Box 338, Main Office, Shrewsbury, MA 01545

New Plant Life Div. NPL Inc., P.O. Box 45, LaPorte, IN 46350

Nitrochem Inc., 2055 Peel St., Suite 800, Montreal, Quebec H3A 1VA

Nutrico Inc., 92 Howard Ave., Bridgeport, CT 06605

J. B. Ogilvie Inc., 1 Greendale Drive, Caledonia, Ontario, NOA1A0

P.B. Ohrstrom & Son's Inc., P.O. Box 964, Arlington Heights, IL 60006

Old Fox Chemical, Inc., 94 Dexter Rd., East Providence, RI 02914

Old Fox Lawn Care, Inc., 94 Dexter Rd., East Providence, RI 02914

Optiflora Inc., 1501 Lischey Ave., P.O. Box 8158, Nashville, TN. 37207

Parker Fertilizer Co., Inc., P.O. Box 540, Sylacauga, AL 35150

Parrott-Agra Industries, 16 Sunny Side Ave., Stanford, CT 06902

Paygro, Inc., 11000 Huntington Rd., So. Charleston, OH 45368

PBI/Gordon Corp., P.O. Box 4090, 1217 West 12th St., Kansas City, MO 64101

Pecos Agricultural Corp., P.O. Box 1712, Pecos, TX 79772

Peters Fertilizer Prod., W.R. Grace Co., 570 Grant Way, Fogelsville, PA 18051

Plantabbs Corp., P.O. Box 397, Timonium, MD 21093

Plantco Inc., 314 Orenda Rd., Bramalea, Ontario, Canada L6T 1G1

Plant Marvel Labs, Inc., 371 E. 16th St., Chicago Heights, IL 60411

Plant Research Labs, 23666 Birtcher Drive Suite B Eltoro, CA 92630

Platte Chemical Co. P.O. Box 667 Greeley, CO 80632
 Pro-Lawn Products Inc., Box 4908, Syracuse, N.Y. 13221
 Quaker Oats Co., The, Merchandise Mart Plaza, Chicago, IL 60654
 Ra-Pid-Gro Corp., 88 Ossian St., P.O. Box 370, Dansville, N.Y. 14437
 R.G.B. Laboratories, Inc., 1531 Charlotte St., Kansas City, MO 64108-1580
 Rhone-Boulenc Inc., P.O. Box 12014, Research Triangle Park, N.C. 27709
 Ringer Corp., 9959 Valley View Road, Minneapolis , MN 55344
 R & W Marketing Inc. 3612 East 44th Street Minneapolis, MN 55406
 Ross Daniels, Inc., 1720 Fuller Rd., P.O. Box 65430, West Des Moines, IA 50265
 S & D Products, Inc., P.O. Box 66, Prairie du Chien, WI 53821
 Safer Inc., P.O. Box 649, Jamul, CA 92035
 Schultz Co., 11730 Northline Ind. Drive, Maryland Hts., MO 63043
 O.M. Scott & Son's Co., 14310 Scotts Lawn Rd. Marysville, OH 43041
 Sea Harvest Co., 47 Winston Grove, Toronto, Ont. M8Y-2L1
 Sears, Roebuck & Co., Dept. 632-71, Sears Tower, 20th fl. Chicago, IL 60684
 Security, P.O. Box 938 Fort Valley, GA 31030
 Sierra Chemical Co., 1001 Yosemite Dr., Milpitas, CA 95035
 Sohio Chemical Co., P.O. Box 628, Lima, Ohio 45802
 Southern Importers, Inc., P.O. Box 8579, Greensboro, NC 27419
 Southern States Cooperative, Inc., Box 26234, Richmond, VA 23260
 Stanford Seed Co., RR #1, Box 405, Denver, PA 17517
 Stern's Nurseries, Inc., 607 W.Washington St., Geneva, NY 14456
 Stim-U-Plant, Inc., 2077 Parkwood Ave., Columbus, OH 43219
 Stoffel Corp., 1894 Highway 57E, Campbellsport, WI 53010
 Sudbury Lawn and Garden Products, 301 West Osborn Rd. Phoenix, AZ 85013-3928
 Synthetic Labs, Victory Lane, P.O. Box 460, Dracut, MA 01826
 Stauffer Household Products 1200 South 47th St Richmond, CA 94804
 Sustane Corporation, 1107 Hazeltine Blvd., Chaska, MN 55318
 Tetra Sales Div., Warren Lambert, 201 Tabor Rd., Morris Plains, NJ 07950

Transnitro, 4511 No. Himes Ave. Tampa, FL 33614

Tru Green Corp. 1111 Alderman Dr. Alpharetta, GA 30201

Tuckahoe Lawn Care Inc., P.O. Box H, 21 University Rd., Canton, MA 02021

Turf Specialty Inc., 84 Merrimac St., Hookset, N.H. 03106

Unique Fertilizers, Inc., P.O. Box 99, Deptford, N.J. 08096

Universal Chemical Corp., P.O. Box 341, West Lynn, Ma 01905

U.S. Gypsum Chemical, 101 So. Wacker Drive, Chicago, IL 60606

Valley Enterprises, 6970 Sylmar Ct., Dayton, OH 45424

WGM/HDRO, 270 Lawrence Ave., So. San Fransico, CA 94080

W. Atlee Burpee Co., 723 Wallace Drive, Warminster, PA 18974

Warren's Turf Nursery Inc., 7502 So. Main St., Crystal Lake, IL 60014

Weaver's Lawn & Garden Prod., Inc., Box 333, Bowling Green OH 43402

Wilbur Ellis Co., P.O. Box 47907, San Antonio, Texas 78265

Wilson Laboratories Inc. P.O. Box 4557 Springdale, CT 06907

Woolfolk Chemical Works, Inc., P.O. Box 938, Fort Valley, GA 31030

John Wojtowicz, Inc. 56 Plant Rd., Clifton Park, N.Y. 12065

Zook and Ranck, Inc., RD 1, Box 243, Gap, PA 17527

1988 LIME REGISTRATION

Agway Inc., Box 4741, Syracuse, New York 13221
Allyndale Corp., Allyndale Rd., E. Canaan, CT 06024
Ampel Manufacturing, Box 3628, 7200 Hickman, Des Moines, Iowa 50322
The J.E. Baker Co., P.O. Box 1189, York, PA 17405
Basins Inc., Box 479, Gouverneur, New York 13642
Blue Circle Atlantic Inc., P.O. Box 3, Ravena, New York 12143
Cianbro Corp., Old Rte. 17, P.O. Box 357, Union, Maine 04862
Conklin Limestone Co., Sand Rd., Canaan, CT 06018
Conklin Limestone Co., P.O. Box M, Lincoln, RI 02865
Dragon Products Co., RT. 1, Box 191, Thomaston, ME 04861
Faesy & Bestoff Inc., 143 River Road, Edgewater, NJ 07020
Goulet Trucking Inc., 27 S. Maple St., Hadley, MA 01035
A.H. Hoffman, Inc., Landisville, PA 17538
Lee Lime Corp., P.O. Box 710, Quarry Road, Lee, MA 01238
Leffingwell Chem. Co., 111 So. Berry St., Brea, CA 92621
Lime Products Corp., P.O. Box 357, Union, ME 04862
Limestone Products Corp. of America, P.O. Box 217, Sparta, NJ 07871
N.E. Silica Inc., 1370 John Fitch Blvd., Box 185, Windsor, CT 06074
North Country Aggregate, P.O. Box 96, Gouverneur, NY 13642
Omya Inc., P.O. Box 3, Florence, VT 05744
Pfizer Inc., Minerals, Pigments & Metals Div., 260 Columbia St., Adams, MA 01220
Pfizer Inc., P.O. Box 667, Canaan, CT 06018
United States Gypsum Co., 101 So. Wacker Dr., Chicago, IL 60606-4385
White's Stone/Pelletizing Co., Drawer 1300, St. Paul, VA 24283

